Volume 164 No. 13

# Oil, Paint and Drug Reporter

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# OIT Fixes 3 Metals Quotas for Oct.-Dec.

Fourth-quarter export quotas for cobalt, molybdenum and nickel were announed last week by the Office of International Trade.

A total of 5,000 pounds (cobalt content) was established for cobalt chemicals such as reagent grade for laboratory use, salts of organic compounds, inorganic salts and compounds, paint and varnish driers and cobalt-containing pigments (B NoS. 829970, 839750, 839900, 843600 and 842900).

OIT pointed out that cobalt-containing pigments, not previously provided for in other quotas, are included in the quota for chemicals. It also announced that certain cobalt chemicals, previously under quantitative limitations, have been open-ended for the fourth quarter. These are chemicals including pigments and combustion catalysts made from scrap or residue not suitable for metallurgical use, and those processed in the United States under toll agreement from cobalt materials received from foreign sources (B Nos. 829970, 829990, 839750, 839900, 842900 and 843600). Under an open-end quota, no quantitative limit on export licensing is set, but exports are controlled to protect the national security.

A quota of 15,000 pounds has been set for reagent grade molybdenum chemicals, ammonium molybdate, molybdenum salts and compounds, and molybdenum lubricants formulated from molybdenum disulphide (B Nos. 829970, 838500, 839900 and

—*Continued on page 61*

## Sheaffer Leaves His Post In Commerce Department

Craig R. Sheaffer has resigned as Assistant Secretary of Commerce for Domestic Affairs as the aftermath of the public controversy over rejection of the battery additive, "AD-X2," by the Bureau of Standards.

In his letter of resignation which Secretary Weeks accepted on authority of President Eisenhower, Mr. Sheaffer made no direct reference to the "AD-X2" controversy. He stated only that he had planned to resign next year, but thought it best that he leave the department now to permit his successor time to become familiar with the work before congress reconvenes next January. It is understood that Mr. Sheaffer plans to resume his association with the Sheaffer Pen Company.

## *Copper Purchase Plan Weighed by US, Chile*

Formal conferences were entered into last week between Chile and the State department looking towards the possible signing of a contract by the United States for purchase of upwards of 100,000 tons of Chilean copper. The conferences were requested by Chile.

Details of the United States offer have not been revealed by the negotiators although they were agreed upon in conferences with the Office of Defense Mobilization a week in advance of the meetings with Chile. It is understood that Chile is asking 36½ cents a pound for the copper, or about six cents above the world price. The conferences may continue for several weeks before a contract is decided upon, according to American officials.

## Soybean Trading Limit Boost Proposed by CEA

The daily limit on speculative trading and net positions in soybean futures is proposed to be raised from 1,000,000 to 2,000,000 bushels by the Commodity Exchange Commission, it was announced September 21 by administrator J. M. Mehl. This would place the soybean limit on a par with that in effect for wheat, corn, and oats.

Mr. Mehl said that the higher limit is being recommended in view of the increased maturity of the soybean futures market and the well-sustained volume of trading in the commodity over the past two years. Persons interested may submit written statements pertaining to the proposed increase on or before October 10 to the CEA.

## Titanium Hearing Today

The subcommittee of the senate interior committee investigating adequacies of supply of various metals and minerals will take up the matter of titanium at a hearing today at Henderson, Nev., it was announced last week by Sen. George W. Malone of Nevada, chairman of the subcommittee. The inquiry is being conducted under a resolution approved by the senate last session.

# Metal Accords to Stabilize World Market Are Scored by Wormser

International commodity agreements as a means of stabilizing violent fluctuations in the price and volume of metals were reported last week by assistant Secretary of the Interior Felix E. Wormser to be under discussion in world quarters. He added, however, that he would be strongly opposed to such measures.

Speaking before the meeting of the American Mining Congress at Seattle, Wash., September 21, Mr. Wormser said that the international wheat agreement was a forerunner; an agreement on sugar has just been negotiated; agreements on cotton, wool, and rubber have been discussed; and persistent efforts are being made to negotiate an agreement on tin. Suggestions for other agreements, he added, include copper, lead, zinc, and perhaps other minerals.

**Called 'Worst' in Govt. Control**

"To those of us who believe in the freedom of the market place, such agreements are abhorrent," he declared. "From the businessman's point of view they represent the worst in governmental intervention and control. They lead to restrictions of production, the imposition of quotas and export controls, and smack of state trading completely removed from the exchange and the market place.

"I recognize the problems which international commodity agreements seek to solve. I fear the treatment may prove worse than the disease. When we embark internationally upon the path of regulating prices, fixing production and marketing quotas, establishing and managing buffer stocks, we may not only be undertaking a task beyond human abilities, we may be traveling down the road of no return.

"Even though they may be planned as stop gaps, as temorary emergency measures, they may prove exceedingly difficult to terminate. Cartels by government are not fundamentally different from private industrial cartels either economically or morally."

**Warning on Free Trade**

Mr. Wormser warned against too rapid liberalization of our foreign trade without opportunity to make readjustments, stating that an indiscriminate lowering of tariffs might produce substantial injury to many segments of our economy.

"The expansion of industrial production in the United States," he continued, "requires a far larger supply of metals and minerals than is being produced in this country. In the long run, American industry will require a steady supply of materials on an economic basis. We cannot hope to hold our place as the industrial backbone of the free world if we cannot obtain needed industrial raw materials at competitive world prices. The only policy the United States can follow is to encourage production of metals and minerals both at home and abroad.

"We must do our utmost to discover and develop the full potential of our own resources, but we must nevertheless continue to look to foreign sources of supply for any mineral raw materials, perhaps in increasing amounts in light of our rapidly expanding economy."

# FTC Chairman Orders Complete Enforcement Machinery Overhaul

A complete overhauling of the enforcement machinery and procedures of the Federal Trade Commission has been ordered by chairman Edward F. Howrey. The action came as a result of the discovery that no attempt has ever been made by the commission to follow up its cease and desist orders to find out how effective they have been in ending unfair or unlawful practices beyond the initial report respondents are required to file. This report must be made within sixty days of the date of the order.

At the same time, chairman Howrey has recommended to commission attorneys that they encourage more personal conferences between the commission and respondents to discuss methods of effecting compliance. Although it is beyond the ability and qualifications of the commission to formulate affirmative business practices for a particular industry, he said, "standards of fair play require that respondents be informed, insofar as possible, as to what they can and cannot do under the order."

**Special Committee Named**

Possible improvements in the compliance procedures of the commission are to be surveyed and recommended by a special committee set up for this purpose by the chairman. The committee consists of PGad B. Morehouse, assistant general counsel, William Snow, director of stipulations, and Alex. Akerman, jr., secretary of the commission. Mr. Akerman, a former judge, will serve as chairman.

Mr. Howrey said that he decided to make the matter of compliance of immediate concern to the commission when he discovered instances of trade practice conference rules still in effect in an industry which had been completely forgotten by everyone concerned. Speaking before the American Institute of Wholesale Plumbing and Heating Supply Associations September 21, the chairman added:—

"If you [and apparently the commission] had forgotten the very existence of the trade practice rules for your industry, how many others had done the same? Worse than that, how many individual respondents had forgotten, or were ignoring, FTC stipulations and formal orders to cease and desist?"

**Scope of Compliance Question**

An idea of the scope of the compliance question is gained from the fact that the commission has outstanding about 180 sets of trade practice rules, 8,400 stipulations and 4,500 orders to cease and desist with a substantial number of the latter prohibiting industry-wide price fixing, conspiracies to restrain trade, price and service discriminations; and other monopolistic and predatory pratices violative of the FTC and Clayton acts.

They cover almost every segment of American business, from baby chicks to steel and steel products, from liver pills and cancer cures to printing, insecticides,

—*Continued on page 61*

## Chemicals Foreign Trade Showed Decline for July

United States foreign trade in chemicals and related products declined to $88,700,000 during July from the June level of $97,300,000, according to preliminary figures compiled by the Bureau of Census and issued September 25.

Declines from the earlier month were recorded by the bureau in both exports and imports of these products. It was estimated that July chemical exports totaled $65,800,000 while those of June were $70,600,000. Imports dropped to $22,900,000 in July from $26,700,000 in June.

The trend of the trade in chemicals followed that of merchandise generally for the month. The bureau said that exports of all merchandise declined from $1,376,500,000 in June to $1,346,300,000 in July while imports declined from $933,800,000 to $907,900,000. The decline occurred in spite of an increase in Mutual Security Program exports from $371,100,000 to $397,700,000.

The importance of Mutual Security exports was even more striking in the figures of total exports for the first seven months of the year. From January through July exports were valued at $9,440,900,000 as compared with a total of $9,065,800,000 for the same period in 1952. However, MSP exports amounted to $2,362,100,000 in the first seven months of 1953 or $1,443,100,000 more than the shipments under this program in the first seven months of 1952. With the MSP shipments excluded, exports during the first seven months of 1953 were 13 percent lower than in the comparable period of 1952. Imports during the first seven months of this year amounted to $6,538,500,000 or about 5 percent more than the 1952 total of $6,247,700,000.

## Uranium Ore Price, Bonus Schedules Extended by AEC

The Atomic Energy Commission has extended the expiration date of the guaranteed minimum price schedule for uranium ores of the Colorado Plateau area, and also has extended the time during which initial production of uranium ore from new domestic mines will be eligible for bonus payments. The actions were taken for the purpose of continuing AEC's program of encouraging the production of uranium from domestic sources.

The commission's domestic uranium program circular 5, revised, has been extended to cover the period through March 31, 1962, from its previous expiration date of March 31, 1958. This circular, which went into effect on March 1, 1951, provides guaranteed minimum base prices for the uranium oxide content of carnotite-type and roscoelite-type ores of the Colorado Plateau area. The price schedule ranges from $1.50 to $3.50 per pound of uranium oxide content, depending upon the grade of the ore, together with certain allowances and premiums.

Domestic uranium program circular 6,

*Continued on page 44*

## Boron to Be Purchased With Funds From FOA

The $900,000 which has been advanced to Germany by the Foreign Operations Administration under procurement authorization No. 09-390-00-4201 (OPD, 9/21/52) will be used for the purchase of boron minerals in the United States, it was annoounced by the agency last week.

The German firms that will receive sub-authorizations to make purchases are not known at this time. Interested suppliers, however, can contact the following concern in Germany to obtain additional information and the names of importers that receive sub-allocations:—Ministry of the Marshall Plan, ERP Kontor, Bad Godesberg, Germany.

## Proprietary Association Wins 'Non-Poisonous' Redefinition

Judge Colie, of the New Jersey Superior Court last week modified his definition of the term "non-poisonous" as relating to patent or proprietary medicines involved in his decision of last July 20 in the case of the Proprietary Association vs. the Board of Pharmacy of the State of New Jersey.

The term was originally defined by the judge to mean only those medicines which would neither destroy life nor impair seriously the functions of the organs when in solution in the blood or acting chemically on the blood.

Upon a showing by the association that such a definition was too broad because it would include almost any drug or medicine when no consideration is given to quantities or doses to be taken, Judge Colie agreed to a modification of the term in the final judgment signed September 22, so that it would not apply when the medicine is taken in accordance with directions.

The judgment now states that the word "non-poisonous" means a patent or proprietary medicine that "when bearing or accompanied by proper printed directions for use thereof and when used in accordance therewith, and being in solution in the blood or acting chemically on the blood, neither destroys life nor impairs seriously the functions of one or more of the organs."

# Minerals Study Panel Is Organized by NSF

A permanent advisory panel on minerals research has been set up by the National Science Foundation to aid in developing policy on basic research in the field of mineral discovery and exploration. Composed of representatives of the mining and petroleum industries, universities and government, the panel membership is:—

James Boyd, Kennecott Copper Company, New York, chairman; Allen V. Astin, National Bureau of Standards; John G. Bartram, Stanolind Oil & Gas Company, Tulsa, Okla.; Alan Bateman, Yale University; Arthur H. Bunker, Climax Molybdenum Company, New York; Gordon L. Davis, Geophysical Laboratory, Washington, D. C.; Maurice Ewing, Columbia University; Paul D. Foote, Gulf Research & Development Company, Pittsburgh, Pa.; L. C. Graton, Harvard University; John Gustafson, M. A. Hanna Company, Cleveland, Ohio.

Also, C. K. Leith, National Research Council, Washington, D. C.; Thomas Nolan, US Geological Survey; William W. Rubey, National Research Council; Lewis Slichter, University of California; John Vanderwilt, Colorado School of Mines; Clyde E. Williams, Battelle Memorial Institute, Columbus, Ohio; William Rather, US Geological Survey, and Paul Zinner, Bureau of Mines.

The panel was set up on recommendation of a temporary advisory group appointed by the foundation in 1952 to review recommendations of the President's Materials Policy Commission relating to the undertaking of an extensive program of basic scentific research and technical development of improved technics and instruments of exploration for minerals.

The temporary committee also suggested possible areas in which the additional research is needed and submitted a preliminary guide to the foundation.

# Tetracycline, New Powerful Antibiotic Drug, Discovered

Discovery of a new powerful antibiotic, called tetracycline, which in test tube studies paralleled the broad-range activity of "Terramycin," was revealed last week.

Tests have shown tetracycline to be as effective as "Terramycin" in the treatment of such ailments as typhoid fever, boils and urinary tract infections, according to Dr. Lloyd H. Conover, Dr. Walter T. Moreland, Dr. Charles R. Stephens and Dr. Frederick Pilgrim and Dr. Arthur R. English, researchers for Chas. Pfizer & Co., Brooklyn, N. Y.

They added that tetracycline also was active in tests against microorganisms linked with such diseases as bronchial pneumonia and "strep" sore throat, but added that no trials on animals or human beings have been made.

The antibiotic activity of tetracycline also was described by a team of research of American Cyanamid Company's Lederle Laboratories Division, Pearl River, N. Y. Participating in the Lederle work, con-

—Continued on page 74

# Methyl Mercaptan Plant Planned at Port Arthur

Thiochemicals, Inc., a newly-formed company of Port Arthur and Houston, Tex., will put up a $500,000 methyl mercaptan plant at Port Arthur. Construction on a $200,000 pilot plant is scheduled to begin shortly.

The first of its type, the plant will extract the material from waste refinery gases. Previous extraction has been from crude oil. Chauncey W. Robinson, Thiochemicals vice-president and manager of the Port Arthur operation, said that Atlantic Refining Company, under terms of an arrangement made with that concern, will pipe the waste gases to the plant from its nearby refinery. Thiochemicals is headed by C. E. Gill, president of the National Gas Odorizing Company.

# Polypropyleneglycol Price Schedule Is Cut by Carbide

Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, New York, has announced new lower prices on polypropyleneglycols 425, 1025 and 2025. The new prices in the eastern territory (east of Idaho, Utah and Arizona) are:—Tankcars, 25 cents per pound; carload lots in drums, 26¾ cents per pound, and less than carload lots in drums, 27¾ cents per pound. All shipments of fifty-five-gallon drums or more are f.o.b. delivery point or rail carrier nearest to the point of destination. Prices in the western territory are one cent per pound higher.

# Contents of This Issue


ACS Discloses Ten Medal Winners' Names.. 65
Am. Cyanamid Appoints Rosane..... 4
American Potash Adds Steele..... 48
Antibiotic Certification Rules Amended..... 5
Antibiotics Symposium Slated by HEW..... 7
Arkell & Smith Marks Expansion..... 48
Ayerst Midwest Sales Managed by Davis.... 59

Beckman Appoints Jones..... 57
Becton, Dickinson Appoints..... 60
Binney & Smith Moving Office..... 75
Blaw-Knox Doing Okla. Survey..... 46
Boron To Be Bought With FOA Funds..... 3
Bricker Colgate Sales Appointee..... 71

Celanese Appoints Unit Sales Mgr..... 71
Cellulose Acetate Booklet Offered..... 82
Chemical Growth in Quebec to Continue.... 5
Chemicals Foreign Trade Decline..... 3
Chi. Cosmetic Chemists Meet Oct. 6..... 71
Cincinnati Drug Ass'n Elects Sexton..... 63
Concord Names Calif. Agent..... 75
Continental Shelf Search Authorized..... 4
Copper Purchase Plan Weighed..... 3
Cowles Issues Catalog..... 58

Davison Elects Directors..... 44
Defense Dept. Names Cairns..... 46
Dimer Acid Output Being Boosted..... 5
Distribution Conference Sets Chem. Talks.. 7
DL-Ethionine Offered in Kilos..... 65
Dodge & Olcott Appoints Bauer..... 5
Dolmetsch Joins Mathieson..... 44

Endo Expands in Canada..... 59
Explosives Transport Rule Changes Urged.. 4

FDA Reports Sixty-Two Seizures..... 62
Fertilizer Offered by Allied Chemical..... 48
Food Research Labs Starts House Organ.... 59
Franklin Inst. to Give Medal to Blum..... 7
Fritzsche Makes Staff Reassignments..... 71
FTC Orders Enforcement Overhaul..... 3

Gen'l Dyestuff Consolidating Offices..... 55
Gibbs Medalist Decries School Mass Output. 45
Gouger Gen'l Aniline Vice-Pres..... 44
Gould Named to NSF Post..... 7

Health Information Group Honors Penick.. 59
Hog Bristle Import Rules Eased..... 7
Huisking Fetes Sammer..... 58

Industrial Hygiene Foundation Elects..... 62
Inland Adds Mackenzie..... 68
Irvington Varnish Appoints Gavin..... 75

LaPine Offers Wall Chart..... 64
Lilienthal to Address Phila. Chemists' Dinner 45
Lilly Asks Review Denial..... 60
Little Opens New Office..... 59
Lucidal Output 75 Percent Intact..... 4
Lysine Patent Freed..... 58

MCA Sets Midyear Meeting..... 7
McCormick Projects Merger..... 68
Metal Accords Scored by Wormser..... 3
Methyl Mercaptan Plant Planned..... 4
Minerals Research Unit Established..... 4
Monsanto Agriculture Units Grouped..... 48
Monsanto Names Research Heads..... 43
Monsanto Organic Unit Plans New Office... 45
Monsanto Revamps Organic Sales Group.... 5
Montecatini to Make 'Terylene'..... 5

Naugatuck Post to Imholz..... 74
NFA Appoints Rucker..... 7

Oil Chemists Plan Nov. Parley..... 7
OIT Fixes Metals Quotas..... 3
OIT Names Blackwell Economic Director.... 51
Olin Appoints Gagnon..... 45

P.A.'s Eye View..... 5
Paint Courses Offered..... 74
Pfizer Labs Appoints..... 58
Pitman-Moore Adds Hewson..... 62
Polypropyleneglycol Price Cut..... 4
Process Plants Service Set Up..... 46
Proprietary Assn. Slates Meetings..... 7
Proprietary Assn. Wins Redefinition..... 3

Refining Increase Outside US Seen..... 51
Ridges Penick Vice-Pres..... 7

Schenley Moves Sales Office..... 65
Shapiro Leaves First Machinery..... 45
Sharp & Dohme Building Chicago Office..... 59
Sharples Names Armstrong..... 45
Sheaffer Leaves Commerce Post..... 3
Shield Reduces 'Drycrete'..... 44
Silica Firm Organized..... 44
Smith-New York Making ADA Esters..... 65
SOCMA Slate Drawn Up..... 7
Sokol Heyden Antibiotic Div. Head..... 61
Solvay Honors Berton..... 45
Solvent Offered in Tanks..... 75
Soybean Trading Limit Boost Proposed..... 3
Standard Building Textile Chemical Plant... 5
Standards Association Offers Booklet..... 45
Steel Shipping Barrels: July..... 62
Synthetic Chemicals Group Offered..... 59

Tallow Purchase Funds for Greece..... 55
Tetrocycline, New Drug, Discovered..... 4
Titanium Hearing Today..... 3

UK Sulphuric Acid, Oleum Data Reported.. 5
Universal Detergents Appoints..... 57
Uranium Ore Price Schedules Extended..... 3
USDA Names Golumbic..... 75

Van Patten Adds LeFevour..... 58
Vitro Corp. Elects White..... 5


## Market Reports

(See Page 9)

## General Features


Advertisers Index..... 83
Association Meeting Dates..... 7
Bids Wanted..... 64
Book Review..... 38
Classified Advertisements..... 82
Consulting Chemists and Engineers..... 55
Coal Chemicals Output..... 52
Crude Oil Stocks..... 50
Current Market Quotations..... 9
Editorials..... 38
Imports..... 64
Imports Detained..... 67
Obituaries..... 63
OPD Price Index..... 4
Washington Talks It Over..... 5
Trade Briefs.....44, 46, 51, 60, 61, 64


# Explosives Transportation Regulations Changes Urged

A number of changes in the regulations of the Interstate Commerce Commission governing the transportation of explosives and other dangerous articles were proposed last week by shippers, to be put into effect within twenty days. The amendments are designed primarily to bring the regulations up to date with relation to new products being offered for shipment and new types of packaging.

Among the changes proposed are the following:—

To restrict the transportation of new explosives until approved; to provide additional shipping containers for pentaborane; to exclude lithium ammonium hydride from exemptions for flammable solids; to provide restrictions on the shipment of magnesium dross; to provide MC-311 cargo tanks for the transportation of white or yellow phosphorus; to provide additional packing requirements for zirconium metal powder or hafnium metal powder in wet or sludge forms.

Also, to provide for MC311 cargo tanks for the transportation of corrosive liquids; to prohibit the transportation of unstabilized benzyl chloride in nickel tankcars; to provide shipping containers for the transportation of inhibited hydrochloric acid; to provide additional shipping containers for sulphuric acid; to provide specific requirements for the transportation of carbon monoxide; to provide for shipments of dichlorodifluoromethane and monochlorodifluoromethane in excess of 60,000 pounds in single unit tankcars; to provide shipping requirements for methyl bromide or mixtures of methyl bromide and ethylene dibromide in liquid form; and to provide an additional container for the transportation of chlorpicrin mixtures.

# Continental Shelf Searches Adjoining Texas Authorized

Sulphur, oil and gas explorations in the continental shelf adjoining Texas were authorized last week by the Department of the Interior.

Temporary regulations published by the department granted authority under certain conditions to persons to make geological and geophysical explorations in the outer continental shelf where cooperative arrangements have been entered into with the adjoining state for the production and conservation of aquatic life. Texas is the only state thus far to enter such an agreement.

Pending the issuance of detailed regulations the department announced that geophysical and geological explorations may be conducted on the outer continental shelf on condition that the person (1) has a permit for such explorations covering adjoining state areas from the appropriate supervisory agency of the state; (2) has obtained appropriate permission for such explorations from the Corps of Engineers, Department of the Army, and that (3) for the protection and conservation of aquatic life, he complies with the requirements of the statutes and regulations of the adjoining state.

The notice also announced that the regulations of the states relating to explorations in their submerged lands would be governing with respect to the geological and geophysical exploration on the continental shelf adjoining the states. Enforcement of the regulations was assigned to the appropriate regional oil and gas supervisors of the Geological Survey.

# Cyanamid Appointments to 3

American Cyanamid Company, New York, announced the appointment of C. B. E. Rosane as comptroller and Duncan Edwards, jr., and Ernest G. Hesse as assistant treasurers.

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# Price Index Drops Lower

The overall OPD price index declined 0.15 point last week. The largest number of reductions was made in essential oils, where bergamot, orange, rue and spearmint were among materials found at lower quotations. Dalmatian sage and abies siberica oils were advanced in this market. The heavy chemicals market saw increases for potassium stannate, sodium stannate and other tin salts. Declines in this market were limited to quicksliver. The oils and fats market registered a very slight overall gain, with linseed acid, copra, oleostearine and crude coconut oil advanced. Reductions were noted for greases, lard and tallow.

The coal chemicals market was quiet, pricewise. Changes in the textile and leather chemicals market were confined to egg yolk and Maine potato starch, which were advanced. Steamed domestic bone meal was reduced, as was castor pomace, bringing the agricultural chemical market index lower. Changes in the botanical drug market included advances for ergot, wild cherry and white pine barks, whole and powdered ipecac root, cascara sagrada bark and yerba santa leaves. Prices for goldenseal root, Zanzibar clove and Jamaican ginger worked lower. Petroleum derivatives were without feature, as was the drugs and fine chemicals market. Bleached grades of shellac were advanced in the protective coatings market.

Except for 38 changes in botanicals listed on page 67, price changes during the past week were as follows (the number in parentheses after changes indicate the pages on which the market reports will be found):—

### Prices Advanced

Acid, linseed, 1/10c. per lb. (76).
Copra, $10 per ton (76).
Egg yolk, 5c. per lb. (49).
Eugenol, USP, 15c. per lb. (69).
Oil, abies siberica, 10c per lb. (69).
Coconut, crude, Pac. coast, ⅞c. per lb. (76).
refined, ½c. per lb.
Lavender, spike, Spanish, 10c. per lb. (69).
Linseed 1/10c. per lb. (76).
Oleo, 1c. per lb (76).
Palm kernel, ¼c. per lb. (76).
Peanut, crude, 5¾c. per lb. (76).
ref., ¾c. per lb.
Safflower, ½c. per lb. (76).
Sage, Dalmatian, 50c. per lb (69).
Oleostearine, ¼c per lb. (76).
Potassium stannate, .04c. per lb. (40).
Potato starch, Maine, ¼c. to ½c. per lb. (49).
Shellac, bleached, bonedry, 4c. per lb. (72).
refined, 4c. per lb.
Sodium stannate, .05c. per lb. (40).
Soybean meal, $1.50 per ton (76).
Tin chloride, .06c. per lb (40).
Crystals, .05c. per lb.
Sulphate, .05c. per lb.
Tetrachloride, .05c. per lb.

### Prices Reduced

Bone meal, steamed, dom., $5 per ton (47).
Castor pomace, $1.50 per ton (47).
Greases, ¼c. per lb. (76).
Lard, 1/10c. per lb. (76).
Oil, bergamot, nat., Italian, 50c. per lb. (69).
Camphor, white, 2c. per lb. (69).
Corn, crude, ⅛c. per lb. (76)
Cananga, native, 25c. per lb. (69).
Cedarwood, 1c. per lb. (69).
Eucalyptus, 70-80%, 10c. per lb. (69).
Fennel, 5c. per lb. (69).
Lime, dist., Mex., 25c. per lb. (69).
terpeneless, $15.50 per lb.
Oiticica, ¼c. per lb. (76).
Orange, USP, Cal., 2c. per lb. (69).
Florida, 7c. per lb.
Pennyroyal, 15c. per lb. (69).
Rosemary, USP, 5c per lb. (69).
Rue, 20c. per lb. (69).
Spearmint, USP, 25c. per lb. (69).
Tung, ¾c. per lb. (76).
Wormseed, 15c per lb. (69).
Wormwood, 15c. per lb. (69).
Quicksilver, $3 per flask (40).
Red, vermilion, quicksilver, 1c. per lb. (72).
Tallow, ⅛c. to ¼c. per lb. (76).

### OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100=1949 average)

| Sept. 25, 1953 | Sept. 18, 1953 | Sept. 26, 1952 |
|---|---|---|
| 105.62 | 105.77 | 109.21 |

# Lucidol Explosion Leaves 75 Percent of Output Intact

Lucidol Division of Novadel-Agene Corporation told OPD September 25 that 75 percent of the industrial peroxides production at its Tonawanda, N. Y., plant is unaffected by the series of explosions which rocked the installation earlier in the week, killing twelve men and injuring twenty-seven others.

A Lucidol spokesman said that the company has stocks on hand for most of its peroxides, but added that there was more of some types of the material than others. He further reported that 90 percent of the concern's working organization was on the job two days after the blast. With investigators still probing for the cause of the explosion, the company official stated that it was still too early to tell when reconstruction of the damaged units would get under way.

# Sulphuric Acid, Oleum Data for UK Reported

The National Sulphuric Acid Association, a British organization, has reported statistics covering first-quarter operations of the United Kingdom's sulphuric acid industry. Data on sulphuric acid and oleum during April-June of this year in tons of 100 percent $H_2SO_4$ are as follows:—

| | Chamber only | Contact only | Chamber and Contact |
|---|---|---|---|
| Stock, April 1 | 26,417 | 32,603 | 59,020 |
| Production | 161,120 | 298,739 | 459,859 |
| Receipts | 31,992 | 22,642 | 54,634 |
| Oleum feed | .... | 1,212 | 1,212 |
| Adjustments | —116 | —119 | —235 |
| Use | 99,843 | 115,799 | 215,642 |
| Shipments | 89,195 | 206,577 | 295,772 |
| Stock, June 30 | 30,375 | 32,701 | 63,076 |
| Total capacity represented | 200,080 | 365,400 | 565,480 |
| Percentage production | 80.5% | 81.8% | 81.3% |

Data on raw materials used in sulphuric acid production follow in tons:—

| | Stock April 1 | Receipts | Use | Stock June 30 |
|---|---|---|---|---|
| Pyrites | 130,762 | 94,102 | 95,922 | 127,561 |
| Spent oxide | 214,597 | 66,408 | 68,712 | 195,526 |
| Sulphur and $H_2S$ | 51,327 | 57,334 | 61,845 | 47,934 |
| Zinc concentrates | 86,246 | 37,504 | 39,998 | 83,751 |
| Anhydrite | 550 | 45,965 | 45,635 | 880 |

Consumption of sulphuric acid and oleum by trade uses in the United Kingdom during April-June follows in tons of 100 percent $H_2SO_4$:—

| | |
|---|---|
| Accumulators | 2,347 |
| Agricultural purposes | 450 |
| Bichromate and chromic acid | 3,052 |
| Bromine | 4,120 |
| Clays (fuller's earth, etc.) | 2,226 |
| Copper pickling | 911 |
| Dealers | 2,755 |
| Drugs and fine chemicals | 3,234 |
| Dyestuffs and intermediates | 15,752 |
| Explosives | 7,761 |
| Export | 542 |
| Glue, gelatin and size | 134 |
| Hydrochloric acid | 13,035 |
| Hydrofluoric acid | 2,708 |
| Iron pickling (incl. tinplate) | 22,818 |
| Leather | 882 |
| Lithopone | 3,068 |
| Metal extraction | 996 |
| Oil refining and petroleum products | 16,054 |
| Oils (vegetable) | 2,558 |
| Paper, etc. | 1,403 |
| Phosphates (industrial) | 399 |
| Plastics, not otherwise classified | 5,336 |
| Rayon and transparent paper | 55,322 |
| Sewage | 2,766 |
| Soap and glycerin | 7,088 |
| Sugar refining | 171 |
| Sulphate of ammonia | 70,617 |
| Sulphates of copper, nickel, etc. | 5,935 |
| Superphosphates | 119,740 |
| Tar and benzol | 4,705 |
| Textile uses | 5,540 |
| Titanium oxide | 40,994 |
| Unclassified | 34,582 |
| Sulphate of magnesium | 1,344 |
| Total | 461,295 |

## Dodge & Olcott Appoints Bauer Sales Coordinator

Dodge & Olcott, Inc., New York, has appointed Jules Bauer to the newly-created post of coordinator of sales. Mr. Bauer began his business career with General Electric Company and a few years later moved to Prentiss Hall, Inc., New York publishing house. After service in the navy during World War II, he returned to Prentiss Hall, becoming assistant vice-president and executive director of college sales. In his new post, Mr. Bauer will work closely with C. O. Homan, D&O vice-president, and Paul Sperry, sales manager.

# *P.A.'s-Eye View of Business*

*Composite view, September 27, of purchasing agents composing the Business Survey Committee of the National Association of Purchasing Agents.*

The September survey reveals no significant improvement over August, when it was reported the fall and winter upswing might be a slow starter. Order books are lower and production has only inched up. The conditions seem to be almost parallel with those of September, 1948, when the stage was being set for the 1949 recession. There is one exception. Unworked inventories, which have been undergoing reducing treatment for several months, are much lower and better balanced than in September, 1948.

Prices are softening, led by copper, lead and zinc, this month. Employment is lower, with slightly more layoffs than additions reported, which is a very rare condition for September. Buying policy is short-range, predominantly sixty days and under.

The pressure for business is sharpening in most all lines. Foreign competition is more noticeable. Purchasing agents expect business will taper off during the fourth quarter but still be at a high level. The situation is not alarming but calls for caution and close watching. October will have to show a real spurt for industrial business to equal the fourth quarter of 1952.

**Commodity Prices**

The industrial purchased materials price structure for September again shows weakness and instability. Price increases are more than balanced out by decreases, nonferrous metals taking the heaviest decline. The long-expected drop in copper and brass prices has occurred. Still pending is the disposition of the large Chilean copper surplus. The declining order backlog condition of many fabricators has intensified competition. Foreign producers are stepping up selling activity in this country.

**Inventories**

Unworked material inventories took another dip in September, the third month in succession that more than 30 percent have reported lower stocks. Those having inventory increases comment it is due to seasonal pickup, production cutbacks, improved vendor deliveries, strikes, and suppliers' shipping ahead of schedule. Lagging order books, availability of materials, lack of confidence in prices, all contribute to the conservative view on material investment. Overall, stocks are believed to be in better balance and in improved turnover position.

**Employment**

More report layoffs than new hirings, a most unusual condition for September. The principal reasons:—Production curtailments, students returning to school, and strikes. The situation is not bad, as 78 percent report holding to previous high employment or adding to payrolls. Overtime is fast disappearing and some plants have cut under forty hours to hold their people. Productivity is improving, as is usual when layoffs and short time occur. Several areas report all types of labor available and better selectivity. Others are looking for skilled help.

**Buying Policy**

Future commitment range shows practically no change from the previous cautious view of the markets. Seventy-five percent report holding to "hand-to-mouth"

—*Continued on page 83*

## Monsanto Revamps Organic Chemicals Sales Organization

Monsanto Chemical Company, St. Louis, Mo., has effected a number of major changes in the sales organization of its organic chemicals division. Chester W. Christensen, Arthur P. Kroeger and Cyrus W. Merrell have been appointed associate managers of sales, newly-created posts. Tullius C. Tupper and William M. Russell have been advanced to the positions of assistant general managers of sales.

James A. Singmaster, jr., has been made New York general branch manager, succeeding Mr. Russell, who will take up his new duties in St. Louis. Jack C. Hutchison has been named to assume Mr. Singmaster's post as New York assistant general branch manager. James J. Feeks will be Mr. Hutchison's successor as Cinciniati, Ohio, branch manager.

The plasticizers and resins sales department in St. Louis, formerly under the managership of Mr. Tuper, is being separated into two departments—plasticizers sales with Howard I. Armstrong as manager, and resin materials sales with A. David Evans as manager.

Mr. Christensen has been with Monsanto since its acquisition of Rubber Service Laboratories, Akron, Ohio, in 1929, serving in sales management capacities at Akron. Mr. Kroeker joined Monsanto in 1929 in the rubber service department at Akron, then represented Monsanto in San Francisco and Los Angeles before his appointment in 1945 as assistant general manager of sales. Mr. Merrell, who came into the Monsanto organization in 1935 as

—*Continued on page 35*

## Montecatini Gets ICI License For 'Terylene' Output in Italy

Imperial Chemical Industries, Inc., London, has concluded a pact with Montecatini of Milan, Italy, licensing Montecatini to manufacture and sell the polyester fiber known in Britain as "Terylene" in Italy.

ICI now has under construction a £20,000,000 "Terylene" plant under construction at Wilton in North Yorkshire. The first stage of the new plant is scheduled for completion by the end of next year, and will be in production in 1955. The second stage is due to get into operation in 1956, giving a total "Terylene" output of 22,000,000 pounds annually.

Rights to produce and sell polyester fibers in the United States were acquired by E. I. duPont de Nemours & Co., Wilmington, Del., in 1947. In Canada, ICI's subsidiary, Imperial Chemical Industries of Canada, Ltd., has a large "Terylene" plant under construction at Millhaven, near Kingston, Ont.

## Dimer Acid Production Being Boosted by Emery

Emery Industries, Inc., Cincinnati, Ohio, is expanding its facilities for producing dimer acid. According to the company, improvements in processing methods will produce a lighter colored product, but in no way will change other characteristics of the long-chain dibasic acid.

To avoid possible confusion with other unrelated dimers, the new production will be called "Empol 1022' polymerized fatty acid. Full scale production of "Empol 1022" is scheduled for early December. Shortly thereafter "Empol 1022" will replace completely the present "Emery 955" dimer acid. Limited quantities of "Empol 1022" are now available for experimental work.

## Standard Starts Construction On Textile Chemicals Plant

Standard Chemial Products, Inc., Hoboken, N. J., has started construction on a new plant to manufacture chemicals for the textile industry. Located at Charlotte, N. C., the new installations will cover an area of 50,000 square feet and will also include ample storage facilities. Present at the ground breaking ceremonies was the firm's president, Louis L. Grombacher, who announced that the company expects to go into full production by next spring.

# Antibiotic Certification Regulations Amended

Several important changes in the regulations covering the certification of antibiotic products have been made by the Food and Drug Administration and announced last week.

The amendments provide for tests and methods of assay and certification of a new antibiotic drug procaine penicillin and dibenzylethylenediamine dipenicillin G in streptomycin sulphate solution and procaine penicillin and dibenzylethylenediamine dipenicillin G in dihydrostreptomycin sulphate solution; for a change in the test for pyrogens for preparations containing penicillin and streptomycin or dihydrostreptomycin to provide for a test dose of two milliliters of a solution containing five milligrams in lieu of one milliliter of a solution containing 10 milligrams of streptomycin or dihydrostreptomycin.

**3-Nitro-4-Hydroxyphenylarsonic Acid**

Also, for a change in the minimum and maximum amounts of 3-nitro-4-hydroxyphenylarsonic acid that may be contained in animal feeds containing one or more of the certifiable antibiotic drugs; for a change in the potency standards for streptomycin sulphate solution and dihydrostreptomycin sulphate solution to provide for a minimum of not less than 250 milligrams per milliliter and a maximum of not more than 500 milligrams per milliliter, unless it is intended solely for veterinary use and is conspicuously so labeled.

Also, for tests and methods of assay and certification of two new antibiotic drugs —capsuls procaine penicillin in oil and bacitracin methylene disalicylate; for a change in the standard of purity of chlortetracycline hydrochloride intended solely for use in the manufacture of a veterinary drug for nonparenteral use from a minimum of 900 micrograms to 820 micrograms per milliliter, and a change in the safety test for such drug which reduces the quantity of the test dose per mouse from 1.0 milligram to 0.8 milligram.

**Chloramphenicol Palmitate**

Also, for a change in the pH standard of chloramphenicol palmitate oral suspension from not less than 6.0 to not less than 4.5, and for deletion of the minimum potency standard for chlortetracycline capsuls intended solely for veterinary use.

FDA also announced that it has exempted from certification bacitracin methylene disalicylate for use in animal feed and animal feeds containing this drug when the animal feed is denatured and labeled in compliance with the specified regulations and when used solely for the prevention or treatment of the disease condition indicated.

## Chemical Growth in Quebec Will Continue, Askin Predicts

Continuing expansion of Quebec Province's booming chemical industry to fill the long term needs of eastern Canada's fast growing plastic, paint, textile and pharmaceutical industries was forecast last week by Simon Askin, president of Heyden Chemical Corporation, New York, speaking at the official opening of the new Varennes, Quebec, plant of St. Maurice Chemicals, Ltd., which is jointly owned by Heyden and Shawinigan Chemicals, Ltd., of Montreal.

The new St. Maurice plant has capacity for 30,000,000 pounds of formaldehyde and 3,000,000 pounds of pentaerythritol, the first to be produced in tonnage commercial quantities in Canada. "St. Maurice is now surveying possibilities of further expansion in the field of formaldehyde-based chemicals and other products," Mr. Askin reported.

## Vitro Corp. Elects White Executive Vice-President

George White, jr., has been elected executive vice-president of Vitro Corporation of America, New York.

Mr. White, who has been with Vitro since 1946, has been a director and vice-president of its parent company, Vitro Manufacturing Company, and has served as chairman of the board and president of another subsidiary, Vitro Chemical Company. He is now executive vice-president, a director, and member of the executive committee of the three companies.

Mr. White began his career as a technical assistant for Shell Petroleum Corporation. Later he joined M. W. Kellogg Company as a process engineer. From 1943 to 1946 he served the government's Rubber Reserve Company as deputy director. Following his war service, he joined Vitro as a division engineer and was later made director of project management.

# *Washington Talks It Over*

**By Ralph L. Cherry**

The Federal Trade Commission has just taken a major step in the direction of a more liberal viewpoint on merchandising practices that seek to capture the public's attention, by restoring within reasonable limits the right of sellers to offer "free" gifts upon the purchase of other merchandise.

The meaning of the term "free" in a merchandising sense has been a matter of much controversy for a number of years, and more so since January, 1948, when the FTC took a very narrow view of the word and considered nothing to be "free" which had any strings whatsoever attached. The mere requirement that something be purchased even at the regular price in order for the buyer to receive a "free" gift was enough to place the seller in violation of the law.

Under the new policy ruling of the commission, the use of the term "free" will no longer be considered an unfair or deceptive practice, unless:—

(1) "When all the conditions, obligations, or other prerequisites to the receipt and retention of the 'free' article of merchandise are not clearly and conspicuously explained or set forth at the outset so as to leave no reasonable probability that the terms of the advertisement or offer might be misunderstood; or

(2) "When, with respect to the article of merchandise required to be purchased in order to obtain the 'free' article, the offer either (a) increases the ordinary and usual price; or (b) reduces the quality; or (c) reduces the quantity or size of such article of merchandise."

The commission will continue to proceed against deceptive use of the word "free." The new policy states:—

"There must be truth in advertising to support the use of the word 'free.' If an advertiser either lies as to the facts or tells only part of the truth in his advertising, and such lies or omissions have the tendency or capacity to mislead or deceive the public, this commission, pursuant to the authority delegated to it by congress, must inhibit such use of the word 'free' in advertising."

## GOP Gains Control of FTC

The Republicans have finally moved into actual control of the Federal Trade Commission again for the first time in twenty years. The term for Stephen Spingarn finally ran out on September 20 enabling former congressman John W. Gwynne of Iowa to take over the office to which he had been appointed and confirmed last July.

The commission is now composed of three Republicans—Mr. Gwynne, Lowell Mason and the chairman, Edward F. Howrey—and two Democrats—former chairman James A. Mead and Albert A. Carretta. Although not in actual control until now, the Republicans have been in nominal control since Mr. Howrey's ap-

—*Continued on page 38*

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## Association Meetings

**This Week**

Textile Chemical Manufacturers Association, annual meeting, Claridge hotel, Atlantic City, N. J., October 1-2.

American Chemical Society, regional conclave, Jung hotel, New Orleans, La., December 10-12.

American Coke and Coal Chemicals Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., October 12-13.

American Council of Commercial Laboratories, annual meeting. Sheraton-Cadillac hotel, Detroit, Mich., November 4-7.

American Institute of Chemical Engineers, annual meeting Jefferson hotel, St. Louis, Mo., December 13-16.

American Oil Chemists Society, fall meeting, Sherman hotel, Chicago, November 2-4.

American Petroleum Institute, annual meeting, Conrad Hilton hotel and Palmer House, Chicago, November 9-12.

Association of American Feed Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 14-15.

Association of American Fertilizer Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 16.

Association of Consulting Chemists and Chemical Engineers, annual meeting, Belmont Plaza hotel, New York, October 27.

Association of Economic Poisons Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 17.

Association of Official Agricultural Chemists, annual meeting, Shoreham hotel, Washington, D. C., October 12-14.

Boston Conference on Distribution, Statler hotel, Boston October 19-20.

Chemical Industries Exposition, Commercial Museum and Convention Hall, Philadelphia, November 30-December 5.

Chemical Specialties Manufacturers Association, annual meeting, Mayflower hotel, Washington, D. C., December 6-8.

Combined Contact Committee of ADMA, APMA, Greenbrier hotel, White Sulphur Springs, W. Va., October 22-23.

Commercial Chemical Development Association, fall meeting, Kenmore hotel, Boston, October 15; winter meeting, Statler hotel, St. Louis, Mo., January 19.

Consulting Chemists and Chemical Engineers, twenty-fifth anniversary celebration, Belmont Plaza hotel, New York, October 27.

Federation of Paint and Varnish Production Clubs, annual meeting, Chalfonte-Haddon Hall Atlantic City, N. J., October 27-31.

Flax Institute, annual meeting, Nicollet hotel, Minneapolis, Minn., November 12-13.

Manufacturing Chemists association, midyear meeting, Waldorf-Astoria hotel, New York, November 24.

Mid-Century Conference on Resources for the Future, Washington, D. C., December 2-4.

National Association of Retail Druggists, annual meeting, Sherman and Morrison hotels, Chicago, October 11-15.

National Fertilizer Association, fall meeting, Atlanta Biltmore hotel, Atlanta, Ga., November 16-19.

National Foreign Trade Council, annual meeting, Waldorf-Astoria hotel, New York, November 16-18

National Paint, Varnish and Lacquer Association, annual meeting, Chalfonte-Haddon Hall, Atlantic City, N. J., October 26-28.

National Pest Control Association, annual meeting, Nicollet hotel, Minneapolis, Minn., October 18-21.

National Safety Council, congress and exposition, Chicago, October 19-23.

National Wholesale Druggists' Association, annual meeting, Biltmore hotel, Los Angeles, October 3-7.

Packaging Institute, annual forum, Statler hotel, New York, October 12-14.

Paint Industries Show, Haddon Hall, Atlantic City, N J, October 27-30.

Parenteral Drug Association, annual meeting, Barbizon-Plaza hotel, New York, October 28-30.

Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, William Penn hotel, Pittsburgh, Pa., March 1-5, 1954.

Proprietary Association, foreign trade committee dinner meeting, November 17, Biltmore hotel, New York; executive committee meeting, December 10; scientific section-veterinary committee meeting, December 11, Biltmore hotel, New York.

Salesmen's Association of the American Chemical Industry, chemical sales clinic, Commodore hotel, New York, October 19-20.

Society of Industrial Packaging and Materials Handling Engineers, exposition, technical short course and competition, Mechanics Hall, Boston, October 18-24.

Society of Rheology, annual meeting, New Yorker hotel, New York, October 29-30.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Commodore hotel, New York, October 14.

Toilet Goods Association, scientific section, winter meeting, Waldorf-Astoria hotel, New York, December 9.

## Proprietary Association Slates 3 Unit Meetings

The Proprietary Association has fixed dates for meetings of three of its groups. The foreign trade committee will hold a dinner meeting November 17 at 6 p.m. The asosciation's executive committee will convene December 10. The scientific section-veterinary committee meeting will be held December 11, starting at 10 a. m. All three groups of the association will meet at the Biltmore hotel, New York.

## Oil Chemists Release Plans for Nov. Parley

The American Oil Chemists Society has announced plans for its annual fall meeting, to be held November 2 through 4 at the Sherman hotel, Chicago, with A. F. Kapecki as general chairman and H. T. Spannuth as program chairman.

At the session on animal feeds, the following papers will be presented:—

"The Stabilization of Animal Fats with Antioxidants During Rendering," by L. R. Dugan, jr., Lotte Marx, Paul Ostby, and O. H. M. Wilder; "Use of Inedible Animal Fats in Poultry and Dog Rations," by B. S. Schweigert and A. J. Siedler; "Use of Animal Fats in Poultry Feeds," by M. L. Sunde, University of Wisconsin, Madison, Wis.; "Use of Animal Fats in Swine Feeds," by J. C. Hillier, Oklahoma A & M College, Stillwater, Okla., and "Use of Animal Fats in Rations for Beef Cattle," T. W. Dowe and John Matsushima, University of Nebraska, Lincoln, Neb.

**Soaps, Detergents Session**

On the program for the soaps and detergents session are the following papers:—

"A Dynamic Foam Test for Evaluation of Hand Dishwashing Compositions," by L. E. Weeks, J. C. Harris, and E. L. Brown, Monsanto Chemical Company, Dayton, Ohio; "The Sulfonation of Detergent Alkylate with Stabilized Sulfur Trioxide," by K. R. Gerhart and D. O. Topovac, Continental Oil Company, Ponca City, Okla.; "A Laboratory Distillation Methods for the valuation of Crude Glycerin," by F. Schlachter and H. D. Hoffman, Armour & Co., Chicago; "Surface-Active Properties of Salts of Alpha-Sulfonated Acids and Esters," by A. J. Stirton, J. K. Weil, R. G. Bistline, jr., Eastern Regional Research Laboratory, Philadelphia, and "A Titrimetric Method for Total Phosphorus Pentaoxide, by J. T. R. Andrews, Procter & Gamble Co., Cincinnati, Ohio.

Other papers scheduled to be presented at the meeting are:—

"A Methyl Docosahexaenoate; Its Isolation and Characterization," by E. G.

—*Continued on page 51*

## Franklin Institute to Give Cresson Medal to Blum

An Elliott Cresson Medal, awarded by The Franklin Institute of the State of Pennsylvania for distinguished contributions in the realm of physical sciences, will be presented by Dr. William Blum, former chief of the electrodeposition section of the National Bureau of Standards, "in recognition of his long continued and usually meritorious work in creating a modern scientific basis for the electrodeposition of metals, and for his development of useful processes in that field." The institute will formally present the medal at its annual Medal Day ceremonies on October 21.

Among the first to recognize the need for a scientific approach to the problems of the technical and industrial use of electrodeposition, Dr. Blum as a chemist in the Bureau of Standards became acquainted with the state of the art by his investigations of electrotyping for the Government Printing Office. He later developed an electrolytic process for printing plates at the Bureau of Engraving and Printing which effected a very large economy in the printing of currency. In this process chromium plating received one of its earliest successful commercial applications.

## Hog Bristles Import Rules Eased for German Exporters

Regulations were issued last week by the Foreign Assets Control Division of the Treasury Department permitting the importation of dyed hog bristles from west Germany upon certification that the bristles are not of Communist origin.

Imports will be permitted under special license which may be obtained by making application on form TFAC-1 to the Federal Reserve Bank of New York. Attention was called to the fact that the general license permitting imports of hog bristles from Japan and Korea upon proper certification and not applicable to the purchase or importation of German dyed hog bristles. The special license referred to is required.

## Gould Named to NSF Post

Dr. Laurence McKinley Gould, president of Carleton College, Northfield, Minn., and a leading geologist and geographer, has been appointed to the National Science Board of the National Science Foundation. Dr. Gould will fill out the term of Dr. James B. Conant, which expires May 10, 1956. Dr. Conant resigned when he became US High Commissioner for Germany.

## *Penick Vice-President*

Robert P. Ridges has been elected vice-president in charge of finance by S. B. Penick & Co., New York. Mr. Ridges formerly was vice-president and controller of Alexander Smith, Inc., Yonkers, N. Y., with which he had been associated for sixteen years in various capacities.

## NFA Appoints Rucker Director of Information

National Fertilizer Association has appointed Delbert L. Rucker director of information. Mr. Rucker, who will join NFA October 12, will assume responsibility for editing *Fertilizer News*, a biweekly publication of the association. In addition to his duties as editor of the *News*, he will handle press and radio contacts.

Mr. Rucker replaces William E. Chace, who resigned from NFA to become Washington representative of Group Attitudes Corporation (OPD 9/14/53). Prior to accepting his new post, Mr. Rucker was associated with the Department of Agriculture for nearly twelve years in information activities.

NFA has also confirmed the naming of John F. Gale as editor of the *National Fertilizer Review*, official publication of the association. Mr. Gale's appointment was indicated two weeks ago in the announcement of Mr. Chace's resignation. In addition to his duties as editor of the *Review*, Mr. Gale will edit and assist in the preparation of NFA's educational projects including pamphlets, brochures, motion picture scripts, etc. He joined NFA in 1950 as a writer and economist, and before this was manager of the Harrison County Farm Bureau Cooperative, Cadiz, Ohio.

## Antibiotics Symposium Slated By HEW Dept. Next Month

A symposium on antibiotics will be held October 28 to 30 by the Department of Health, Education and Welfare under the sponsorship of the division of antibiotics. The discussions will take place in the auditorium of the department, Washington, D. C.

It is planned that the symposium cover the entire field, including the latest findings on:—Emergence of resistance organisms; development of sensitivity; blood dyscrasias and other toxic reactions; clinical usefulness of new antibiotics; problems involving antibiotics in feeds, research and development, and possible new uses of antibiotics.

Among the speakers and the topics they will discuss will be Dr. Maxwell Finland, "Clinical Uses of Presently Available Antibiotics"; Dr. Edwin J. T Pulaski, "Antibiotics in the Treatment of Surgical Infection"; Dr. Monroe J. Romansky, "Antibiotics Other Than Penicillin in Treatment of Syphilis," and Dr. William B. Tucker, "Present Status of the Chemotherapy of Tuberculosis."

## Distribution Conference Sets Talks by Chemical Leaders

Two representatives of the chemical industry will be among the speakers at the twenty-fifth annual Boston Conference on Distribution, to be held October 19 and 20 at the Statler hotel, Boston. Philip Cortney, president of Coty's, Inc., will speak on "United States Monetary Policies and the World" and Harry L. Dalton, vice-president of American Viscose Corporation, will speak on "Man-Made Fibers—Their Growth and Future."

## ACCCE 25th Birthday To Be Marked in Oct.

Commemorating the twenty-fifth anniversary of its founding, the Association of Consulting Chemists and Chemical Engineers will hold a silver jubilee meeting October 27 at 6 p.m. at the Belmont Plaza hotel, New York.

In making the announcement, Miss A. B. Bowers, ACCCE director of publicity, emphasized that participation is not restricted to members and that all guests are welcome. According to Miss Bowers, the program includes a black tie banquet, dance and dinner music, top-flight entertainment and a number of surprises. Reservations must be made with the association, 50 East 41st street, New York 17, not later than October 15.

**Membership Growth Cited**

Incorporated under New York State law in October, 1928, by a small group of consuling chemists and chemical engineers, the association has seen a 400 precent growth in membership during the twenty-five years of its existence. Originally planned to advance science and the practice of consulting chemistry and chemical engineering to serve the public and the government according to the highest ethical standards, ACCCE has vastly expanded the scope of its activity during the past quarter century.

Among its major activities today, the association operates the internationally-known Clearing House for Consultants. Providing a link between industry and the consulting profession, the Clearing House is just what its name indicates. It serves as a reservoir of information about the profession, offering free services to all in need of consulting advice.

Playing a key role in association affairs is its director of publicity, Miss Bowers, who has been with ACCCE since its inception. In addition to her publicity duties, she also serves as assistant executive secreary of the association and editor of all its publications. Originator of the Clearing House, Miss Bowers is responsible for its day-to-day operations. Executive secretary of the association is Robert T. Baldwin, who also has been with ACCCE since its founding.

**Association's Publications**

Besides editing "Your Consultant," the association's bimonthly bulletin now in its fifth year, Miss Bowers also provided the guiding hand for fourteen editions of "Consulting Services" and "The Consulting Chemist and Chemical Engineer in a World Economy." The former is the association's periodic directory of consultants, while the latter is a thirty-two-page booklet put out by ACCCE last year detailing the role played by the consultant in the world economy.

The association has five living founder members. They are Jerome Alexander, Charles V. Bacon, Charles R. Downs, Alvin C. Purdy and Robert Schwarz. Mr. Purdy is president of Bull & Roberts, Inc., New York, and Mr. Schwarz is chairman of the board of Schwarz Laboratories, Inc., New York.

Current officers of ACCCE are:—President, Foster Dee Snell, Foster D. Snell, Inc., New York; vice-president, Abraham Taub, College of Pharmacy, Columbia University, New York; secretary, Thomas P. Kearney, director of Industrial Testing Laboratories, New York, and treasurer, Percy E. Landolt, Landolt & Whitney, New York.

## SOCMA Slate Drawn Up For Nominating Committee

The Synthetic Organic Chemical Manufacturers Association has announced the slate of six candidates for the 1954 nominating committee which will be presented to the association membership to be voted on at the next regular meeting October 14 at the Commodore hotel, New York.

Names of the candidates are:—J. R. Fisher, Gamma Chemical Corporation; Henry Herrmann, General Aniline & Film Corporation; R. E. Horsey, Givaudan Corporation; Otto Kinzel, Carbide & Carbon Chemicals Corporation; G. W. Knowles, E. I. duPont deNemours & Co., and J. W. Stevens, Celanese Corporation of America, C. William Mahnken, Geigy & Co., chairman of the present nominating committee, will carry over as a seventh member of the new committee.

## MCA Sets Midyear Meeting

The Manufacturing Chemists Association will hold its midyear meeting November 24 at the Waldorf-Astoria hotel, New York.

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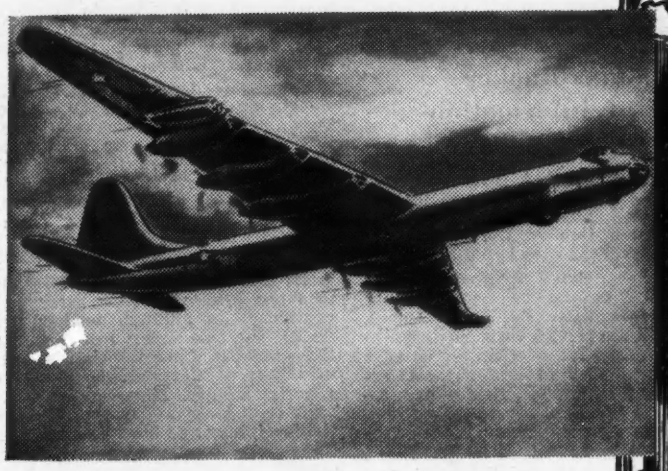

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Particularly in demand are chemicals required for electronic purposes.

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**A Few Baker ELECTRONIC CHEMICALS**

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| Aluminum Nitrate | Magnesium Oxide |
| Aluminum Sulfate | Potassium Hydroxide |
| Ammonium Hydroxide | Silicic Acid |
| Barium Acetate | Sodium Hydroxide |
| Barium Carbonate | Strontium Carbonate |
| Barium Nitrate | Strontium Nitrate |
| Cadmium Chloride | Zinc Oxide |
| Cadmium Sulfate | Reagent Grade Acids |
| Calcium Nitrate | Cathode Coatings |

Baker CHEMICAL

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# Current Market Quotations

## Chemicals and Related Materials

All matters under this heading fully protected by copyright.

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, September 25 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

### Index to Reports on Price Changes and Other Market Aspects


Acids ..... 40
Agricultural Chemicals ..... 47
Aromatic Chemicals ..... 69
Botanical Drugs ..... 67
Coal Chemicals ..... 52
Drugs ..... 56
Essential Oils ..... 69
Fats and Greases ..... 76
Fertilizer Materials ..... 47
Fine Chemicals ..... 56
Gums ..... 67
Heavy Chemicals ..... 40
Lacquer Materials ..... 72
Leather Chemicals ..... 49
Naval Stores ..... 72
Oil, Cake and Meal ..... 76
Oils ..... 76
Paint Materials ..... 72
Pesticides ..... 47
Petroleum Derivatives ..... 50
Protective Coatings Materials ..... 72
Spices ..... 67
Textile Chemicals ..... 49
Varnish Materials ..... 72
Waxes ..... 76


## A

Acacia (see Gum arabic).

Acenaphthene below 92.5 C., m.p., dms. works lb. 40 - —
above 92.5 C., m.p., bbls., dms., works lb. .41 - .50

Acetaldehyde, 99% dms. c.l., frt. equald lb. .1250 - .1435
l.c.l., frt equald lb. .1350 - .1535
tanks, frt. equald lb. .1050 - .1300

Acetaldol (see Aldol)

Acetanilide tech., bbls., c.l., dlvd lb. .29 - —
ton lots lb. .30 - —
smaller lots lb. .30½ - —
USP, bbls., 2,000-lb. lots lb. .80 - —
smaller lots lb. .81 - .86

Acetic anhydride, dms., c.l., dlvd. E. lb. .15½ - —
l.c.l., dlvd. E lb. .17 - —
tanks, dlvd. E lb. .14 - —

Acetoacetanilide fib dms. c.l dlvd. lb. .75 - —
l.c.l., dlvd. lb. .76 - —

Acetoacetorthochloroanilide, fib. dms., c.l., dlvd lb. 1.27 - —
l.c.l., dlvd. lb. 1.28 - —

Acetoacetorthotoluidide, fib. dms., c.l. dlvd lb. .78 - —
l.c.l. dlvd lb .79 - —

Acetone, CP, dms., c.l., dlvd. lb. .10½ - —
l.c.l., dlvd lb. .11½ - —
tanks, dlvd. lb. .08½ - —

Methyl (see MD)

Acetonitrile, dms., c.l. works lb. .45 - —
l.c.l., works lb. .47 - —

Acetophenetidin USP bbls., works, frt. equald lb. 1.15 - 1.17

Acetophenone, cns. dms lb. 1.35 - 1.85
tech., dms., l.c.l., works lb. 75 - —

Acetyl (N) para-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85

Acetyltributyl citrate, tech. dms., c.l lb. .33½ - —
l.c.l lb. .38½ - —
tanks lb. .32 - —

Acetyltriethyl citrate, tech. dms., c.l lb. .37½ - —
l.c.l. lb. .38½ - —
tanks lb. .36 - —

Acid, abietic, com'l, dms., c.l., works lb. .12 - —
l.c.l., works lb. .1390 - —
cryst., dms., c.l., works lb. .06½ - —
l.c.l., works lb. .07 - .07½

Acetic, com'l or redist., 28%, bbls 100 lbs 5.50 - —
56%, bbls 100 lbs. 9.65 - —
70%, bbls 100 lbs.11.70 - —
80%, bbls 100 lbs.12.45 - —

glacial, synthetic, CP, dms. works 100 lbs.15.00 -16.00
USP cbys, inclusive works. 100 lbs.24.00 -25.00
tech., dms., c.l., works or dlvd. 100 lbs.10.50 12.00
l.c.l., same basis 100 lbs.11.00 -13.00
tanks, works or dlvd. 100 lbs. 9.00 -10.00
USP, dms. works 100 lbs.13.50 -14.50

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic USP special, bbls., makers, primary distrib., point of ship't, 1000-lb. lots lb. .60 - —
standard, fine cryst., gran., (30-40 mesh) powd. (80 mesh), bbls same basis, lb. .55 - —

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St Louis.

Adipic, fib, dms., works lb. .37 - .37½

Aminoacetic NF bbls., frt. adjusted lb 1.50 - 1.75

Anthranilic resub, bbls lb 2.10 - —
tech., bbls., frt. equald lb. 1.10 - 1.21

Arsenous, tech (see Arsenic, white).

USP (see Arsenic trioxide)

Ascorbic USP dms, 25-50 kilo lots. kilo.21.00 - —
10-kilo lots kilo.21.35 - —
5-kilo lots kilo.21.75 - —
bots., 1-kilo lots kilo.22.00 - —
500-gram lots kilo.22.50 - —

Battery, cbys, c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45

Benzoic, tech., bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls, dms, 100-lb. lots or more lb. .54 - —

Betahydroxynaphthoic (see Acid, betaoxynaphthoic).

Betaoxynaphthoic, bbls., works lb. 1.14 - —

Boric, tech, 99½%, cryst., bgs., c.l., works ton.124.25 —
ton lots, ex whse., N. Y. or Chi ton.172.00 —
smaller lots, same basis, ton.177.00 —
bbls., c.l., works ton.148.75 —
ton lots, ex whse., N. Y. or Chi ton.196.50 —
smaller lots, same basis, ton.201.50 —
gran., bgs., c.l., works ton.99.25 —
ton lots, ex whse., N. Y. or Chi ton.147.00 —
smaller lots, same basis, ton.152.00 —
bbls., c.l., works ton.123.75 —
ton lots, ex whse., N. Y. or Chi ton.171.50 —
smaller lots, same basis, ton.176.50 —
bulk, c.l., works ton.94.25 —
powd., bgs., c.l., works ton.104.25 —
ton lots, ex whse., N. Y. or Chi ton.152.00 —
smaller lots, same basis, ton.157.00 —
bbls., c.l., works ton.128.75 —
ton lots, ex whse., N. Y. or Chi ton.176.50 —
smaller lots, same basis, ton.181.50 —

Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric acid $25 per ton higher.

Acid, broenner's, bbls lb. 1.76 - —

Butyric 99% dms, c.l., works, lb. .34 - —
l.c.l., works lb. .34½ - —
tankcars, works lb. .32½ - —

Cacodylic bots lb 10.50 13.00

Camphoric natural, dms lb 4.00 4.75
synth dms lb 4.00 4.75

Capric, dms lb. .26¼ .27½

Caprylic, dms lb. .32¾ .34

Cassella, dms., frt. alld lb. 1.44 1.75

Castor oil, dms lb. .35½ .36

Chicago, bbls frt alld lb .32 -

Chlorosulphonic dms, c.l., frt. equald lb. .0465 - —
l.c.l., frt. equald lb. .0515 - —
tanks, frt. equald lb. .0415 - —

Acid, chlorosulphonic, in stainless steel dms, ½c. per lb. higher.

Cholic, 25-100-lb. bots., fiber dms. lb. .No prices.

Chromic 99¾%, dms., c.l., works lb. .27½ - —
l.c.l., works lb. .28 - .29

NF (see Chromium trioxide)

Cinnamic, refd. bots lb. 2.50 - 3.50

Citric, USP, anhyd., gran., fine gran., dms., c.l. lb. .28¾ - —
10,000-lb lots, 1 ship't, lb. .29¼ - —
smaller lots lb. .29¾ - .31¼
hydrous, gran., fine gran., dms., c.l lb. .27 - —
10,000-lb. lots 1 ship't, lb. .27½ - —
smaller lots lb. .28 - .29½

Powdered citric acid ½c. higher.

Cleve's, mixed, bls lb. .79 - —
Coconut oil, dist., dms lb. .25¼ - .27
tankcars lb. .23½ - —
double dist., dms lb. .26 - .27¾
tankcars lb. .24¼ - —
Corn oil, dist., dms lb. .13 - .14¾
tanks lb. .11½ - —
Cottonseed oil, dist., dms lb. .12 - .13¾
double, dist., dms lb. .12½ - .14¼

Cresylic, coaltar, dom., 50% 207°C or above, ret. dms., c.l., frt. equald gal. .98 - —
l.c.l., same basis gal. 1.03 - —
non-ret., dms., c.l., same basis gal. 1.01 - —
l.c.l., same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
204° to 207°C., ret., dms., c.l., same basis gal. 1.03 - —
l.c.l., same basis gal. 1.08 - —
non-ret., dms. c.l., same basis gal. 1.06 - —
l.c.l., same basis gal. 1.09 - —

Acid, cresylic, coaltar, dom., 204° to 207°C., tanks, same basis gal. .93 - —
imp. 75% at 215°C, or over, dms., ex whse gal. .75 - .90
petroleum, dom. 195° to 213°C, non ret dms., c.l., San Francisco and Los Angeles gal. .71 -
l.c.l., same basis gal. .73 - .75
tanks, same basis gal. .58 - —
200° C. to 222° C., tanks, Wilmington, Cal gal. .58 - .63
211° C to 236° C. non-ret. dms., c.l., San Francisco and Los Angeles gal. .63 -
l.c.l. same basis gal. .65 - .67
tanks, same basis gal. .50 - —
220° C to 242° C., tanks, Wilmington Cal gal. .50 - .53
245° C to 298° C, tanks, Wilmington Cal gal. .46 - —

Crotonic, fib. dms., 200 lbs. or more, works lb. .45 - —
Cyanoacetic, tech. obls lb. .90 1.25

Dehydrocholic, injection, fib. dms., 10 to 100-lb. lots lb. .No prices.
oral, fib., dms., 10 to 100-lb. lots lb. .No prices.

Desoxycholic, fib dms., 10 to 100-lb. lots lb. No prices.

Dichlorophenoxyacetic (see under 'D' 2,4-D)

Diethylbarbituric (see Barbital)

Diglycolic, bgs., works lb. .14 - —
Ethylhexoic, dms, c.l., works lb. .35 - —
l.c.l. works lb. .35½ - —
tanks, works lb. .33½ - —
F, crude paste, bbls., works lb. 1.67 - —
Folic, bots, fib, cns, kilo-lots or more gram. 1.60 - —
Formic, 85%, cbys., c.l., works lb. .1570 - —
l.c.l., works lb. .1620 - .1720
90%, cbys., c.l., works lb. .1625 - —
l.c.l., works lb. .1675 - .1775
Fumaric, tech., bbls., dms lb. .32 - .33
Gallic, NF VII, bbls., 1,000-lb. lots. lb 1.80 -
smaller lots lb 1.82 - 2.00
technical, bbls., 1,000-lb. lots lb 1.58 - —
smaller lots lb. 1.69 - 1.78
Gamma dry, ground, bbls., frt. alld lb. 1.50 - —
paste, bbls., frt. alld lb. 1.45 - —
Gentisic, 100-lb fib dms lb. 8.50 - —
Gluconic, tech., 50%, bots. lb. .23½ - .31½
dms lb. .14½ - —
cbys. lb. .17½ - —
Glutamic 99½% laevo, fib, dms., 100-lb lots, works lb 2.45 2.53
25-lb. lots, works lb. 2.60 2.68
Glycerophosphoric, 35%, dms., works lb 2.25 2.35

Acid, glycolic (see Acid hydroxyacetic).
H, dry, 100% basis, bbls., works. lb. .82 - —
paste, 100% basis, bbls., works. lb. .80 - —
Hydriodic, 1.50 s.g., cbys lb. 2.94 - —
1.70 s.g., cbys lb. 3.23 - —
Hydrobromic, medicinal, 48%, cbys., dlvd E lb. .37 - .43
Hydrochloric, anhydrous (see Hydrogen chloride).
18° cbys., c.l., works 100 lbs. 2.50 - —
l.c.l., dlvd Metropolitan area 100 lbs. 2.90 - 3.05
tanks, works, frt equald ton.28.00 - —
20°, cbys., c.l., works 100 lbs. 2.60 - —
l.c.l., dlvd Metropolitan area 100 lbs. 3.00 - 4.00
tanks, works, frt. equald ton.30.00 - —
22°, cbys c.l., works 100 lbs. 3.15 - —
l.c.l. dlvd Metropolitan area 100 lbs. 3.25 - 4.50
tanks, works, frt. equald ton.35.00 - —
CP, USP consumers, cbys., extra c.l., works lb. .11¾ - —
l.c.l., same basis lb. .13¼ - .13¾
5 pint bottles extra, cs., c.l., same basis lb. .16¾ - —
l.c.l. same basis lb. .19¼ - —

Acid, hydrochloric, CP USP, prices to dealers 1½c per lb less.

Hydrocyanic, cyls., frt. alld lb. .73 - .93
dilute NF 2% 5-lb nots lb. .40 - —
Hydrofluoric, anhyd., cyls., works. lb. .27½ - .29
tanks, works lb. .21 - —
70% steel dms., works lb. .18½ - .22½
Hydrofluosilicic, basis 30%, dms., works lb. .06 - —
Hydroxyacetic, tech 70%, bbls., non-return, Phila., basis 100% lb. .136 - —
tanks, Belle W Va., basis 100% lb. .095 - —
Hypophosphorous, purif., 30%, cbys lb. 1.30 - 1.32
USP, cbys lb 88 - —
Isonicotinic, 100 lb fib dms, works lb. 5.00 - —
J, bbls, works, basis 100% lb. 2.50 - 2.85
Koch, bbls, frt alld lb. .64 - .70
L, bbls frt alld lb. 1.25 - —
Lactic, edible 50% bbls., 20 or more lb. 17 - 20
smaller lots lb. .17½ - .21
80%, bbls., 5 or more lb. .30 - .3640
smaller lots, lb. .305 - .3690
plastic grade 50% bbls., 20 or more works lb. 21¾ -
1 to 19 lb. .22¼ - .22¾
80% bbls. 5 or more lb. .3815 - —
tech., 22% bbls, c.l. works, 100 lbs 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys works 100 lbs 7.20 - 12.20
44% bbls, c.l works 100 lbs.11.45 - 11.95
l.c.l., works 100 lbs.11.85 - 12.50
NF, 85%, cbys lb. .65 - .83
Laurent's, bbls lb .60 - .87
Lauric, 90%, dms lb. .38½ - .40¼
60%, dms lb. .22 - .23¼
Linseed oil, dist., dms lb. .2140 - .2190
water white, dms lb. .2440 - .2490
Maleic, cryst powd, dms. lb. .37 - .38
Malic, tech., dms lb. .50 - —
Mandelic NF dms, 1,000-lb. lots. lb 2.35 -
smaller lots lb 2.40 - 2.50
Metanilic, dms., works lb .57 - .75
Methacrylic, dms, c.l., and truckloads, works lb. 76 -
smaller lots, works lb. .76½ - .80
Molybdic, 85-92%, dms, works lb. 1.27 - —
Monochloroacetic, purified, flake, 99%, dms lb. .25½ - .25½
tech., flake, 96-97%, frt equald, dms lb. .20 - .21
Muriatic (see Acid, hydrochloric)
Myristic, dms lb. .26¼ - .27½
flaked, dms lb. .27 - .28¾
solid, dms lb. .28 - .29¾
Naphthenic 220-230 acidity, dms., works lb. .14 -
tanks, works lb .12 -
Naphthol(1)-4-sulphonic (see Acid, Neville and Winthers)
Naphthol(1)-5-sulphonic (see Acid, L).
Naphthol(1)-5-sulphonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).
Naphthol(2)-6,8-disulphonic (see Acid, Gamma).
(5)-7-Sulphonic,2-amino (see Acid, J).
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed).
Naphthylamine(1)-5-sulphonic (see Acid, Laurent's)
(2)-6-sulphonic (see Acid, Broenner's).
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).
Nevile and Winther's, dms., frt. alld lb. 1.20 - —
Nicotinic, USP dms., frt. adjusted kilo 9.00 9.30
Amide (see Nicotinamide).
Nitric 36° Be cbys., c.l., works, E. 100 lbs. 5.25 - —
l.c.l., works, E 100 lbs. 5.55 - 6.35
38° Be cbys., c.l., works, E. 100 lbs. 5.75 - —
l.c.l., works, E 100 lbs. 6.05 - 6.80
40° Be cbys., c.l., works, E. 100 lbs. 6.25 - —
l.c.l., works, E 100 lbs. 6.55 - 7.35
42° Be cbys., c.l., works, E. 100 lbs. 6.75 - —
l.c.l., works, E 100 lbs. 7.05 - 7.85
58.5 to 68% $HNO_3$, tanks, works, basis 100% 100 lbs. 3.40 - —
94½ to 95¾% $HNO_3$, tanks, works, basis 100% 100 lbs. 4.40 - —
CP, NF, consumers, cbys., extra c.l., works lb. .13½ - —
l.c.l. same basis lb. .15 - .15¼
5 pint bottles, extra, cs., c.l., same basis lb. .17½ - —
l.c.l., same basis lb. .19 - .25

## Abbreviations

### Used in OPD Market Quotations

| | | | | | |
|---|---|---|---|---|---|
| ACS | American Chemical Society | dextro | dextrorotatory | NF. | National Formulary |
| | | dist. | distilled | | |
| alld. | allowed | distr. | distributor | NNR. | New and Nonofficial Remedies |
| ammo. | ammonia | djns. | demijohns | | |
| amorph. | amorphous | dlvd. | delivered | No. | number |
| AMP. | American melting point | dms. | drums | nom. | nominal |
| | | dom. | domestic | ord. | ordinary |
| anhyd. | anhydrous | E. | east | oz | ounce |
| a.p.a. | available phosphoric acid | e.p. | end point | Pac. | Pacific |
| | | equald. | equalized | pf. | proof |
| artif. | artificial | exp. | expressed | phos. | phosphate |
| ASTM. | American Society for Testing Materials | F | fahrenheit | photo. | photographic |
| | | ferment. | fermentation | pkgs. | packages |
| | | ffa. | free fatty acid | powd. | powdered |
| Be. | Baume | ffc. | free from chlorine | precip. | precipitated |
| bbls. | barrels | fib. | fiber | prod. | producer |
| bgs. | bags | f.o.b. | free on board | pt. | point |
| bls. | bales | FPA. | free of prussic acid | pulv. | pulverized |
| bots. | bottles | | | purif. | purified |
| b.p. | boiling point | frt. | freight | redist. | redistilled |
| b.p.l. | bone phosphate of lime | fus. | fused | refd. | refined |
| | | gal. | gallon | refy. | refinery |
| b.r. | boiling range | gran. | granular | reg. | regular |
| bxs. | boxes | grd. | ground | resub. | resublimed |
| C. | centigrade | i.&a. | iron and aluminum | ret. | returnable |
| cbys. | carboys | | | SD. | specially denatured |
| CD. | completely denatured | i.b.p. | initial boiling point | s.d | single distilled |
| c.i.f. | cost, insurance, freight | imp. | imported | S. E. | southeast |
| | | incl. | included | secs. | seconds |
| cks. | casks | indust. | industrial | s.g. | specific gravity |
| c.l. | car lots | kgs. | kegs | shipt. | shipment |
| cns. | cans | lacq. | lacquer | solut. | solution |
| col. | color | lb. | pound | s.u. | standard unit |
| coml. | commercial | l.c.l. | less than car lots | synth. | synthetic |
| conc. | concentrated | liq. | liquid | tanks. | railroad tank-cars |
| CP. | chemically pure | m.a.p. | mixed anilin point | tech. | technical |
| cps. | centipoises | M c.f. | thousand cubic feet | USP. | U. S. Pharmacopoeia |
| cryst. | crystal | | | vis. | viscosity |
| cs. | cases | min. | minimum | VM&P | varnish makers & painters |
| ctns. | cartons | m.p. | melting point | | |
| cyls. | cylinders | N. | nitrogen | W | west |
| dbl. | double | nat. | natural | whse. | warehouse |
| denat. | denatured | neut. | neutral | w w. | water white |
| dest-dist. | destructive-distilled | | | | |

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

## Acid, Oleic—Alcohol, Isoamyl

Acid, oleic, single distilled, dms.. lb. .12¾- .14½
tanks ..... lb. .11 - —
double dist. (white), dms..... lb. .15¼- .17
tanks ..... lb. .13½- —
Oleum (see Acid, sulphuric, fuming).
Orthochlorobenzoic, tib dms.. works lb. 1.13 - —
Orthocresotinic, dms., ton lots, works lb. .66 - —
smaller lots, works lb. .68 - —
Oxalic, bbls., c.l works .... lb. .16½- —
10,000-lb lots, works .... lb. .16¾- —
smaller lots, works ..... lb. .17¾- —
Palm oil, double dist., dms lb. .12¼ .13
Para-aminobenzoic, tech.. dms., lb 1.74 1.77
USP, dms., 1,000-lb. lots or more, works lb. 2.50 - —
smaller lots ..... lb. 2.55 - 2.60
Para-aminosalicylic, dms, 1,000-lb lots or more, frt. adjusted lb 4.00 - —
smaller lots, same basis .. lb. 4.05 - 4.50
Parachlorobenzoic &b dms. works lb 1.59 1.62
Paramethylphenylcinchonic (see Neocinchophen).
Paranitrobenzoic, dms lb .77 —
Paratoluidinmetasulphonic, bbls., works lb .82 1.04
Phenylacetic, bots..... lb. 1.45 - 1.70
tech dms. 1,000-lb lots lb .90 —
Phenylcinchoninic (see Cinchophen).
Phenylglycollic (see acid mandelic)
Phosphoric, tone grade 75%, cbys. c.l., works 100 lbs. 7.30 - —
l.c.l., works .. 100 lbs. 7.80 - 8.30
tanks, works .... 100 lbs. 5.10 - —
NF. 85%, cbys., c.l., works lb. .08½- —
l.c.l. works..... lb. .09 .09½
Picric, NF, bbls..... lb. .55 - —
dms small ..... lb. .81 .87
tech., bbls ..... lb. .32 .33
Acid, propionic, syn., pure, dms., c.l., works lb. .258 - —
l.c.l., works ..... lb. .263 - —
tanks, works ..... lb. .19 .243
Pyrogallic, NF., (see Pyrogallol)
tech., bbls ..... lb. 2.76 2.99
Pyroligneous, dms. incl., l.c.l, works gal .36 - —
whse. ..... gal. .50½- —
Ricinoleic (see Acid, castor oil, split).
S. bbls., works ..... lb 3.25 - —
Salicylic, crude, bgs ..... lb. .38 - —
sublimed, tech., bbls., c.l.... lb. .39 - —
l.c.l. ..... lb. .46 - —
dyestuffs grade, bbls.... lb. .41 - —
USP, cryst., bbls. ..... lb. .48 - —
powder, bbls. ..... lb. .53 - —
Sebacic, purified dms. c.l. works. lb. .80 - —
l.c.l., works ..... lb. .82 - —
Soybean oil, double dist., dms lb. .15 - .16¾
single, dist., dms ..... lb. .14½- .16¼
Stearic, double pressed, bgs .. lb. .11¾- .13½
single pressed, bgs ..... lb. .11¼- .13
triple-pressed, bgs ..... lb. .14 - .15¾
Succinic, purified cryst., bbls., works lb .69 .75
Sulphanilic, tech. dms.. c.l., frt. alld lb. .19 - —
l.c.l., frt. alld ..... lb. .21 - —
Sulphuric, 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
l.c.l., works ..... 100 lbs. 2.45 - —
tanks works ..... ton.18.60 - —
66° Be, cbys., c.l., works 100 lbs. 2.25 - —
l.c.l., works ..... 100 lbs. 2.55 - 3.35
tanks works ..... ton.22.35 - —
98%, tanks, works ..... ton.23.50 - —
99-100%, tanks, works .... ton.23.95 - —
Acid, sulphuric, CP, NF, consumers cbys. extra, c.l., works frt. equald.. lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5 pt. bots., extra, cs., c.l., works, frt. equald lb. .13¼- —
l.c.l., same basis lb. .14¾- .20¾
oleum, 20%, tanks, works.. ton.25.00 - —
40% tanks, works..... ton.29.00 - —
65% tanks, works..... ton.39.50 - —
Tallow, dist., dms..... lb. .10¼- .12
hydrogenated, dms..... lb. .11¼- .13
Tannic, NF, fluffy, bbls., 1,000-lb lots lb 1.59 1.60
smaller lots lb 1.65 1.76
powder bbls. 1,000-lb lots lb 1.50 —
smaller lots ..... lb. 1.51 - 1.69
tech dms lb .95 —
Tartaric, USP, dom., 230 or 250-lb., dms or bbls lb. .37 - —
10,000-lb. lots, 1 ship't. lb. .37½- —
smaller lots ..... lb. .38 - —
100 lb dms ..... lb. .39 - —
small dms ..... lb. .41 .47
imported, bgs. ..... lb. .31 - —
Thioglycolic refined nga cnys. basis 100% lb 1.60 1.66
Tobias, bbls., frt. alld ..... lb. .74 - —
Toluenesulphonic dms. c.l., works lb. .16 - —
l.c.l., works ..... lb. .17½ - —
Trichloroacetic, bots. ..... lb 2.00 2.50
Trichlorophenoxyacetic (see under "T" 2,4,5 T).
Tungstic, tech. nga. works lb 4.30 —
Undecylenic dms. ..... lb 1.40 —
Aconite root, bls..... lb. .45 - .60
Aconitine, amorph., mild, bots oz 27.50 32.50
cryst. potent bots oz 78.00 85.00
Acrolein, tech., dms., c.l., works. lb. .47 - —
l.c.l., works..... lb. .47½- —
Acrylonitrile, dms., c.l., works.. lb. .37½- —
l.c.l., works ..... lb. .38 - .40
tanks, works ..... lb. .36 - —
ACTH, bots..... gm.20.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 2.10 - 2.40
powdered, 30 mesh., fib., dms lb. 2.50 - 2.65
Alanine, dextro-laevo, dms., works. lb 8.50 -11.00
Albumen (egg), edible, flake, bbls., lb. 2.41 - 2.45
powder, bbls..... lb. 2.45 - 2.49
tech., cryst., bbls..... lb. 1.05 - 1.08
Albumin, blood, dark (see Blood, dried, soluble)
light, dms., l.c.l. ..... lb. .65 - .90
Egg (see Albumen.
Alcohol, allyl, dms., c.l., dlvd... lb. .32 - —
l.c.l., dlvd..... lb. .33 - —
tanks, dlvd ..... lb .30 —
Amyl ex fusel oil (see Fusel oil, ref.)
fermentation, ref'd., 126° 132°C, dms., c.l., dlvd lb. .32¾- —
l.c.l. dlvd ..... lb. .33¾ .36
tanks, dlvd ..... lb. .31 —
128-132° C. dms. l.c.l. dlvd. lb. .33¾ .36
ACS grade, dms. l.c.l., dlvd lb. .35¾- —
Mixed primary, dms., c.l., works..... lb .20¼- —
l.c.l., works..... lb. .21¾- —
tanks, works..... lb. .18¼- —
Pentanol-1, (synthetic normal) c.l. works lb. .42 - —
l.c.l., works..... lb. .43½- —
tanks, works ..... lb. .40 - —
Pentanol-2, dms., c.l., works.. lb. .65 - —
l.c.l., works ..... lb. .70 - —
tanks, works ..... lb. .60 —
Synthetic, dms., c.l., frt. alld. lb. .16¾- —
l.c.l., frt. alld..... lb. .17½- —
tanks, frt. alld..... lb. .15 - —
secondary dms. c.l. frt. alld. works, lb. .19 - —
l.c.l., works ..... lb. .20½- —
tanks, works ..... lb. .17 - —
tertiary, dms c.l. frt alld E. lb. .19¾- —
l.c.l. frt. alld. E .... lb. .20½- —
tanks, frt. alld E .... lb. .18 —
Benzyl, NF, dms ..... lb. .64 .70
tech. dms. dlvd ..... lb. .47½ .49
Butyl, fermentation, normal, dms., c.l., frt. alld lb. .14¾ —
l.c.l., frt. alld ..... lb. .15½- —
tanks, frt. alld ..... lb. .13 - —
synthetic, normal, dms., c.l., dlvd lb. .14¾- .15
l.c.l., dlvd. ..... lb. .15½- .16
tanks, dlvd ..... lb. .13 —
secondary, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd..... lb. .14 - —
tanks, dlvd ..... lb. .11 - —
tertiary dms. c.l. frt. alld. lb. .14 - —
l.c.l., frt. alld..... lb. .15 - —
tanks frt alld ..... lb. .12 —
Capryl, 85%, dms., c.l., works. lb. .16½- —
l.c.l., works..... lb. .17 - —
tanks, works..... lb. .15 - —
95%, dms., c.l., works..... lb. .18 - —
l.c.l., works..... lb. .18½- .19
tanks, works..... lb. .16½- —
Cetyl extra nb cns. 500-lb tos. or more lb. .73 - —
smaller lots lb. .80 - 1.15
NF nb cns. 140-lb tots or more lb. .58 - .82
smaller tots ..... lb. 59 - .82
Cinnamic bots ..... lb 2.25 - 2.75
Decyl, bots ..... lb. 1.75 - 2.00
Denatures, CD12, CD13, CD14, CD17, dms., c.l., dlvd E. of Rockies gal. .61½- —
l.c.l., dlvd., same basis gal. .65½- .70¼
tanks, dlvd, same basis gal. .49½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
Proprietary solvent, dms., c.l., dlvd E of Rockies gal. .63 - —
l.c.l., same basis gal. .67 - .72
tanks same basis gal. .51 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
SD1, dms. c.l., dlvd E. of Rockies gal. .62½- —
l.c.l., same basis gal. .66½- .71¼
tanks, same basis gal. .50½- —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .61 - —
l.c.l., same basis gal. .65 - .70
tanks, same basis lb. .49 - —
SD3A, dms., c.l., dlvd. E of Rockies gal. .60 - —
l.c.l., same basis gal. .64 - .69
tanks, same basis lb.gal. .48 - —
SD23A, dms., c.l., dlvd. E of Rockies gal. .62½- .63
l.c.l., same basis gal. .66½- .72
tanks, same basis gal. .50½- .51
SD23H, dms., c.l., dlvd. E of Rockies gal. .63 - —
l.c.l., same basis lb. .67 - .72
tanks, same basis gal. .51 - —
SD 29, dms., c.l., dlvd. E of Rockies gal. .60½- .61¼
l.c.l., same basis gal. .65½- .70¼
tanks, same basis gal. .48½- .49½
SD30, dms., c.l., dlvd. E. of Rockies gal. .60 - —
l.c.l., same basis gal. .64 - .69
tanks, same basis gal. .48 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .63 - —
l.c.l., same basis gal. .67 - .72
tanks, same basis gal. .51 - —
SD40, dmes., c.l., dlvd. E. of Rockies gal. .61 - —
l.c.l., same basis gal. .65 - .70
tanks, same basis gal. .49 - —
Diacetone, acetone-free, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd..... lb. .15 - —
tanks, dlvd ..... lb. .12 - —
tech., dms., c.l., dlvd ..... lb. .13¼- —
l.c.l., dlvd..... lb. .14 - —
tanks, dlvd ..... lb. .11½- —
Ethyl 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal.20.55 - —
l.c.l., same basis .. gal.20.59 -20.64
tanks, same basis gal.20.43 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .60 - —
l.c.l., same basis gal. .64 - .69
tanks, same basis gal. .46 - —
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies gal.21.65 - —
l.c.l., same basis .... gal.21.69 -21.74
tanks, same basis ... gal.21.53 - —
Ethylbutyl, dms., c.l., works lb. .29¼- .29½
l.c.l. works ..... lb. .30 - —
tanks, works ..... lb. .28 - —
Ethylhexyl, dms., c.l., dlvd. E lb. .25¼- —
l.c.l., same basis..... lb. .26¼- —
tanks, same basis..... lb. .23½- —
Furfuryl, tech. cns., works .... lb. .31 - —
dms., c.l., works ..... lb. .22½- —
l.c.l. works ..... lb. .24 - —
tanks, works ..... lb .19½- —
Isoamyl (see Alcohol, amyl, fermentation, refined).


# WITCO

## Aluminum Octoate*

(aluminum di-2-ethylhexanoate)

## An Unusually Powerful, Stable, Economical Gelling Agent

Witco Aluminum Octoate gels petroleum solvents at room temperature . . . gives firmer gels for each percent of aluminum octoate than most other gelling agents. Gels are stable to heat . . . do not change viscosity on aging . . . do not break down with additives that destroy stearate gels.

Witco Aluminum Octoate is always uniform, since it is made from a synthetic acid. Efficient gelling properties make it more economical than other gelling agents.

**In Paints . . .** an effective pigment suspension agent . . . increases brushability.

**In Paint Removers . . .** increases viscosity of chlorinated solvents . . . gives readier and longer adhesion to paint.

**In Shingle Stains, Primers and Sealers . . .** decreases penetration of stain, primer or sealer . . . improves adhesion of subsequent coats of paint.

*Made in Witco's Chicago plant

*Write for literature, samples or technical assistance.*

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Aluminum Octoate
Asphalt
Asphalt Specialties
Automobile Undercoatings
Rust Preventives
Sound Deadeners
Vibration Dampeners
Calcium Resinate
Carbon Blacks
Copper Hydroxy Naphthenate
Copper Linoleate
Copper Oleate
Copper Naphthenate
Driers
Naphthenic Acid Driers
Lead-Cobalt-Calcium
Driers—*Continued*
Manganese-Zinc-Iron
Octoic Acid Driers
Lead-Cobalt-Zinc
Witall (Tall Oil) Driers
Lead-Cobalt-Manganese
Esters
Butyl Oleate
Butyl Stearate
Dibutyl Adipate
Dibutyl Phthalate
Methylcyclohexyl Stearate
Lead Linoleate
Lead Oleate
Metallic Stearates
Aluminum Lithium
Barium Lithium Hydroxy
Metallic Stearates—*Continued*
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Copper Strontium
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Vinyl Stabilizers
Witcarbs®
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Witco Gel Breakers
Witcotes®

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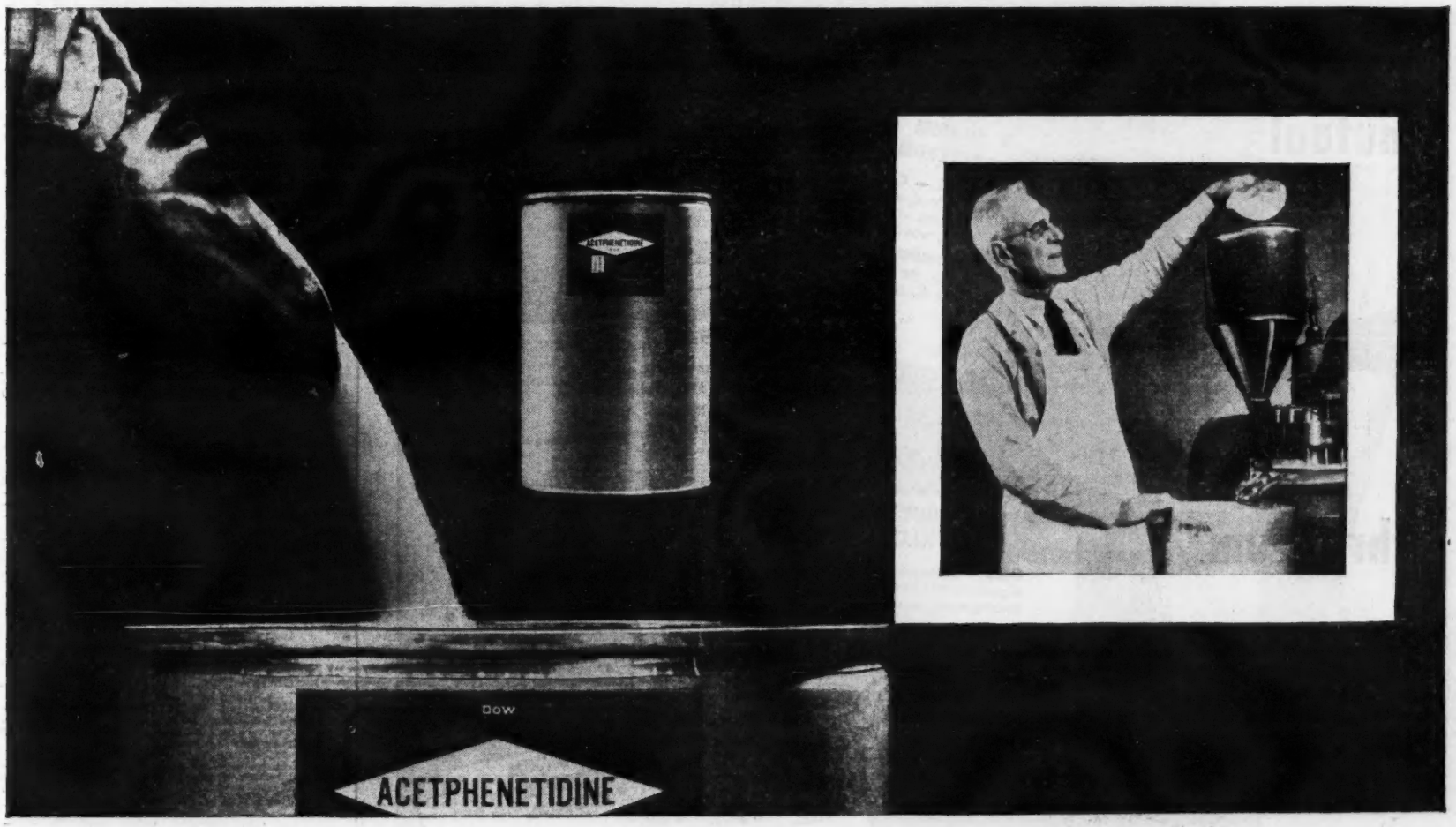
DOW

# DOW ACETPHENETIDINE, U.S.P., FLOWS SMOOTHLY... IMPROVES TABLETTING

## The uniform crystalline structure of this important antipyretic and analgesic by DOW can simplify your production




The value of acetphenetidine, U.S.P., is well established as an antipyretic and analgesic in the pharmaceutical field, where it is frequently referred to by its synonym, phenacetin. To make this fine chemical even more valuable in pharmaceutical processing, Dow constantly maintains the uniformity of the crystalline structure in its acetphenetidine. For you, this can mean the elimination of troublesome caking or blocking in manufacturing for more profitable, uninterrupted production.

Acetphenetidine, U.S.P., by Dow flows smoothly in slugging operations. It also provides excellent performance in processes of the wet granulation type. This material is available as a fine powder and also in a coarser crystalline form—both of these forms have been designed to suit the needs of the pharmaceutical industry.

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DOW

## Alcohol, Isobutyl—Ammonium Thiosulphate

Alcohol, isobutyl, dms., c.l., dlvd. lb. .13¾- .14
l.c.l., dlvd. lb. .14½- .15
tanks, dlvd. lb. .12 - —
Iso-octyl, dms., c.l., dlvd. lb. .25½- —
l.c.l., dlvd. lb. .24¼- —
tanks, dlvd. E lb. .21¾- —
Isopropyl refd., 91%, dms., c.l., dlvd. gal. .54½- —
l.c.l., dlvd. lb. .61½- —
tanks, dlvd. gal. .41½- —
95%, dms., c.l., dlvd. gal. .56¾- —
l.c.l., dlvd. gal. .63¾- —
tanks, dlvd. gal. .43¾- —
99%, dms., c.l., dlvd. gal. .59 - —
l.c.l., dlvd. gal. .66 - —
tanks dlvd. gal. .46 - —
Lauryl, bots. lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl)
Octyl, perfumer's grade, bots lb. 1.75 - 3.25
technical (see Octanol normal)
Pentethenyl (see Panthenol)
Phenylethyl, extra, dms. lb. 1.57 - 2.15
standard, dms. lb. 1.35 - —
Propyl normal dms., c.l., dlvd. lb 12 - —
l.c.l., dlvd lb. .13 - —
tanks, dlvd lb. .10 - —
Polyvinyl, various grades, bgs., ton lots, works lb. 72½ 76
smaller lots works lb. 77½ 81
Tetrahydrofurfuryl, cns., Waverly, N Y lb. .54 - —
dms., c.l., Niagara Falls, N. Y. lb. .45 - —
l.c.l., Waverly, N Y lb. .47 - —
tanks, Niagara Falls, N. Y lb. .43 - —

Alcohol, tetrahydrofurfuryl, industrial grade, dms., c.l., Niagara Falls, N. Y lb. .305 - —
l.c.l., Waverly, N. Y lb. .325 - —
tanks, Niagara Falls, N. Y. lb. .29 - —
Wood (see Methanol).
Alcol, 95% dms. works lb. 23 - —
denaturing grade, dms gal. 2.15 - —
Aldrin, 60% solut., dms., c.l. works frt. alld lb. .538 - —
l.c.l., works, frt. alld lb. .755 - —
Aletris root, bgs. lb. 1.25 - 1.75
Algin (see Sodium alginate).
Allethrin 100% dms. frt., alld lb 32 00 - —
90%, dms., frt alld lb 28.80 - —
solution 20% dms. 100-lb lots frt. alld lb. 6.55 - 7.55
2½%, dms., frt. alld gal 6.00 - 6.50
Allspice (see Pimento)
Allyl bromide cnys., works lb 1 35 1 40
Chloride, dms., c.l., dlvd. lb. .17 - —
l.c.l., dlvd. lb. .18 - —
tanks, dlvd lb .15 —
Starch, solid dms. works lb. .52¾- .54¾
solution, 40% toluol-butanol, dms., works lb. 25½ .26¼
Aloe, Cape, cs lb. .29 - .32
powdered, cs. lb. .38 - 45
Curacao kgs. lb. .50 - .55
Socotrine, kgs lb. .25 - .35
Aloin, USP bbls dms. kgs lb 4.25 4.70
Alphanaphthol, bbls., frt. alld lb. 1.00 - —
Alphanaphthylamine bbls. frt. alld. lb. .50 - —
Alphanitronaphthalene, bbls., frt. alld lb. .41 - —
Alphapicoline ret dms. c.l. works, frt. equald lb. .43½- —
l.c.l., works, frt. equald lb. .44 - —

Alphapinene, tanks, South, works gal. No prices.
Alphaterpineol, dms., l.c.l., dlvd. E lb. .17 - —
Alphatocopherol, bots. kilo. 225.00 - —
Acetate, bots. kilo. 225.00 - —
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
USP, burnt dms lb. .20 - .21
hydrous, 1ms lb. .07¾- .08
Potassium, gran., bgs., works. 100 lbs. 4.55 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt dms lb. .20 - .21
hydrous, dms lb. .07¾- .08
Potash-chrome, dms. lb. .17 - —
Sodium, dms., c.l. works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works. lb. .0385- —
l.c.l., works lb. .0410- .0510
crystalline (see Aluminum oxide).
Aluminum acetate, basic solut., 24%, bbls., l.c.l. works lb. .14 - —
Chloride, com'l, anhyd, dms., c.l., works, frt equald lb. .15 - —
l.c.l., works, frt equald. lb. .1550- —
cryst., dms., c.l., works lb. .1030- —
l.c.l., works lb. .1070- —
solution, 32° chys., c.l., works. lb. .0369- —
l.c.l., works lb. .0435- .0960
tankcars, works 100 lbs. 2.80 - —
NF, gran., dms. works lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works lb. .1540- —
l.c.l., works lb. .1640- .1890
Aluminum fluoride, in fib. dms., 0.35c. per lb. higher.

Aluminum formate, basic solution, cbys. lb. .09½- —
l.c.l., works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton. 60.00 - —
l.c.l., works ton. 65.00 -85.00
light bgs. dlvd lb. .17 - —
Hydroxide, gel., pharmaceutical, 14-15%, $Al_2O_3$, fib dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% $Al_2O_3$, fib dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib., dms., works lb. .82½- —
contract, works lb. 79½- —
powder, tech (see Aluminum hydrate).
Laurate precip., bbls lb. .44 - —
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .21½- —
pigs, 10,000-lb lots frt., alld., lb. .20 - —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms lb. .62½- —
standard, dms lb. .63 - —
Powder, lining, extra fine, dms lb. 1.02½- —
standard, dms lb. .72 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c per lb for 100-lb. dm., 1½c per lb for 50-lb dm. 3c per lb for 10-lb can and 5c to 12c per lb for smaller containers. Deduct 1c per lb for single shipment of 400 to 1,499 lbs, 2c. for 1,500 to 4,999 lbs. 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or over.

Resinate, precip., dms. frt. alld. lb. .27½- —
Stearate, dibasic, ctns., c.l. lb. .33 - —
ton lots or less lb. .34 - —
monobasic, ctns., c.l. lb. .33 - —
ton lots or less lb. .34 - —
tribasic, ctns., c.l lb. .33 - —
ton lots or less lb. .34 - —
Sulphate, com'l, bulk, c.l., works, 100 lbs lb. 1.85 - —
ground, bgs., works ton. 37.00 - —
lump, bgs., works ton. 40.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.55 - —
l.c.l., works, frt. equald 100 lbs. 3.95 - —
USP, gran., dms., works lb. .13 - .15
powd., dms., works lb. .14 - .16
Trihydrate heavy (see Aluminum hydrate)
Ambergris, gray, bots oz. 8.00 -10.00
Ambrette seed, bgs lb. .65 - .66
Aminoazotoluene, bbls lb. 1.03 - 1.18
Aminoethylethanolamine, dms., c.l., dlvd lb. .46½- —
l.c.l., dlvd lb. .47½- —
tanks, dlvd lb. .45 - —
Aminomethylpropanol, cns., dms., works lb. .60 - —
Aminophyllin, USP, 100-lb. dms. lb. 3.05 - 4.00
Aminopyrine, USP, bots. dms lb. 6.00 - 6.15
Ammonia, anhydrous, tertilizer, tanks, works ton. 85.00 -88.00
pure, cycls, extra, zone 1 lb. .18½- —
2 lb. .19 - —
3 lb. .19½- .20
4 lb. .20 - —
5 lb. .21 - —
refrigeration tanks, works ton. 87.50 -90.50
Aqua (29.4% $NH_3$), dms., c.l., dlvd. Met. area 100 lbs. 3.60 - —
l.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis. ton. 96.00 - —
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bgs., c.l., works, frt. equald 100 lbs 8.25 - —
l.c.l., same basis 100 lbs. 8.65 -11.15
white gran. (see Ammonium Chloride).
Ammoniacal liquor, tankcars, works. anhyd. basis ton. 96.00 - —
Ammonium acetate, purified, dms. lb. .38 - —
Benzoate, USP, dms., kgs. 4,000 lb lots frt. alld lb. .80 - —
smaller lots, frt. alld. lb. .81 - 1.08
Biborate, bbls., c.l., works ton. 312.00 - —
ton lots, ex whse ton. 375.00 - —
smaller lots, ex whse ton. 380.00 - —
Bicarbonate, dom., dms., c.l., works lb. 6.50 - —
l.c.l., works lb. 7.50 - —
imported, dms., l.c.l lb. .07¼- .08¼
Bichromate, bbls., works lb. .34½- .38½
Bifluoride, dms., dlvd. lb. .2145- .2245
Bromide NF, gran., bbls lb. .38 - .39
dms. lb. .39 - .42

Powdered ammonium bromide 10c. per lb higher

Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech., white granular, bgs., c.l., works. 100 lbs. 5.25 - —
l.c.l., works 100 lbs. 7.00 - —
USP, gran., bbls., dms lb. .17¼- —
Citrate, dibasic, bbls lb. .75 - —
dms. lb. .80 - .85
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite NF dms lb. 2.40 - —
Iodide, NF, dms., bots lb. 4.26 - 4.38
Linoleate, 80%, dms., works lb. .50 - .55
Nitrate, fertilizer grade, Canadian eastern, 33.5% N, bgs., c.l., shipping point ton. 77.50 - —
western, 33.5% N., bgs., f.o.b. cars, Los Angeles ton. 89.84 - —
domestic, bgs., western, works. ton. 68.00 -70.00—
with dolomite, 20.5% N, bgs., Hopewell, Va. ton. 51.00 - —
Oxalate, fine gran., dms. lb. .26½- .31
Pentaborate, gran., bbls., c.l., works ton. 222.00 - —
ton lots, ex whse ton. 285.50 - —
smaller, lots, ex whse ton. 290.00 - —
Ammonium pentaborate powder, $10 per ton higher
Perchlorate, kgs., works lb. .50 - .75
Persulphate, kgs lb. .38 - —
Phosphate, com'l, bgs., c.l., works, frt. equald lb. .08½- —
l.c.l., same basis lb. .09 - —
dibasic, NF, V, bbls., dms lb. .45 - —
tech., bgs., c.l., works, frt. equald lb. .08½- —
l.c.l., same basis lb. .09 - —
Salicilate, NF, dms., kgs lb. 1.62 - 1.64
Silicofluoride, dms., works lb. .11 - .12
Sulphamate, bbls., dms., works lb. .18 - .20
Sulphate, coke-oven, bulk, producing ovens ton. 44.00 -49.50
synthetic, bgs., c.l., western, works ton. 50.00 -54.50
bulk, works ton. 47 00 -49.50
purified, dms., works lb .08½- .10
Sulphide, liq., 40-44%, dms., c.l., frt. equald., basis 100% ton. 240.00 - —
l.c.l., basis 100%, works. ton. 300.00 - —
tanks, frt. alld ton. 180.00 - —
Sulphocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works. lb. .18 - —
l.c.l., works lb. .20 - .23
Thioglycollate, com'l, cbys., basis 100% lb. 1.60 - —
highly purified, cbys., basis 100% lb. 1.70 - 1.96
Thiosulphate, cryst., photo grade, fib dms., frt. alld lb. .65 - —
60% solution, dms., c.l., works. lb. .06½- —


mutual

chromium

chemicals

SODIUM BICHROMATE $Na_2Cr_2O_7 \cdot 2H_2O$

USES — Chrome tanning, dry color manufacture, textile dyeing, chemical oxidation, cleaning brass, copper, zinc, tin and other metals, corrosion inhibition, wood preservation.

SHIPPING CONTAINERS
Bags, 100 lb. net • Steel drums, 100 lb. net • Fibre drums, 400 lb. net • 70% solution in tank cars

SODIUM CHROMATE $Na_2CrO_4$

USES — Proprietary dry chemical mixtures, corrosion inhibition, wood preservation.

SHIPPING CONTAINERS
Steel drums, 100 lb. net • Fibre or steel drums, 400 lb. net

POTASSIUM BICHROMATE $K_2Cr_2O_7$

USES — Same as Sodium Bichromate; production of pigments, matches, green glass and vitreous enamels; photography and blueprinting; fur dyeing.

SHIPPING CONTAINERS
Bags, 100 lb. net (granular only) • Steel drums, 100 lb. net • Fibre Drums, 400 lb. net • (Available in granular or powdered form)

AMMONIUM BICHROMATE $(NH_4)_2Cr_2O_7$

USES — Photographic reproduction such as in photoengraving, pyrotechnics, catalyst manufacture, porcelain colors.

SHIPPING CONTAINERS
Fibre drums, 100 lb. net • Barrels, about 350 lb.

CHROMIC ACID $CrO_3$

USES — Chromium plating, anodizing aluminum, chemical treatment of magnesium and aluminum alloys, inhibitive dips for metal prior to painting, manufacture of drugs, chemicals and catalysts.

SHIPPING CONTAINERS
Steel drums, 100 lb. net • Steel drums, 400 lb. net

MUTUAL CHEMICAL CO. OF AMERICA — MUTUAL — NEW YORK, N.Y.
SINCE 1845

MUTUAL CHEMICAL COMPANY OF AMERICA
270 MADISON AVENUE, NEW YORK 16, N. Y.
PLANTS: BALTIMORE and JERSEY CITY

Amphetamine hydrochloride, dibasic, dextro, bots. lb. 28.00 - —
dextro-laevo, dms. lb. 6.00 - —
monobasic, dextro, bots lb. 28.00 - —
Phosphate, dibasic, dextro, bots. lb. 28.00 - —
dextro-laevo, dms. lb. 6.00 - —
Sulphate, dextro, dms. lb. 28.00 - —
dextro laevo, dms. lb. 6.00 - —
Amyl acetate (a fusel oil), tech., frt. alld. E. of Rockies lb. .17 - —
l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
ex pentane, dms., c.l., frt. alld. E. of Rockies lb. .16¾ - —
l.c.l., same basis lb. .17½ - —
tanks, same basis lb. .15 - —
Alcohol (see Alcohol, amyl).
Butyrate dms lb. .90 - 1.05
Cinnamic aldehyde, dms lb. 1.05 - 2.00
Nitrite, USP bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .75 - 1.05
Anethol, NF, cns., dms lb. 1.00 - 1.37
Angelica root dom. bls lb. .60 - .70
Anilin oil, dms., c.l., works, frt. allo. lb. .21 - —
l.c.l., works, frt. alld lb. .22 - —
tanks, works, frt. alld lb. .20 - —
Salt, dms., frt. alld lb. .33 - —
Anise, Balkan, bgs. lb. .13 - .13½
Czech, bgs. lb. .15 - —
Mexican, bgs. lb. .17 - —
Spanish, bgs. lb. .18 - .18½
Turkish, bgs. lb. .14 - .14½
Anisic aldehyde, bots., dms lb. 2.00 - 2.70
Annatto seed, whole, bgs. lb. .24 - —
powdered, dms lb. .28 - —
Anthracene, 90-95%, bbls., ton-lots, works lb. .80 - —
smaller lots, works lb. .85 - —
Anthraquinone, 99.5%, bbls., frt. alld. lb. .88 - —
Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines lb. .34½ - —
cases, c.l., mines lb. .35 - —
Oxide, bgs., c.l., frt. alld lb. .27½ - .36
l.c.l., frt. alld lb. .29 - .39½
Sulphide, 62-64% bgs. dlvd lb. .38 - .38½
Trichloride, pails, c.l. works lb. .43 - .47
l.c.l. works lb. .45 - .49
solution, cbys., works lb. .29 - .30
Antimony-potassium tartrate (see Tartar emetic.
Antipyrene, NF, dms lb 2.50 - 2.60
Apomorphine hydrochloride, USP, bots oz. 23 40 - 23 90
Areca nuts, powd., bbls lb. .16 - .17
Arecoline hydrobromide, NF, bots. tins oz 5.00 - 5.75
Arginine monohydrochloride, laevo dms., 1-kilo. lots kilo. 77.00 - —
Argols, min. 50%, bgs., shipment ports, per 100 kilos, basis 100% lb. No prices.
Arnica flowers (true montana), bls. lb. .70 - .71
root, bls lb 1.45 - —
Arsenic metal, lump, bbls., prompt ship't lb. .70 - —
Trioxide, USP dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½ - —
l.c.l. dlvd. lb. .06½ - .07½
Asafetida, cs lb. .32 - .35
powd., bbls. dms lb .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons) mines ton 1,300.00 - —
No. 2, c.l. (20 tons) mines ton 675 00 - —
Run-of-mine, c.l. (20 tons), mines ton 556.00 - —
3K, c.l., (20 tons), mines ton 436 00 - —
3R, c.l. (20 tons), mines ton 371 00 - —
3T, c.l. (20 tons), mines ton 348 00 - —
3Z, c.l. (20 tons), mines ton 321.00 - —
4K, c.l. (20 tons), mines ton 173.00 - —
4M, c.l. (20 tons), mines ton 173.00 - —
4T, c.l. (20 tons), mines ton 156 00 - —
4Z, c.l. (20 tons), mines ton 156 00 - —
5D, c.l. (20 tons), mines ton 122.50 - —
5K, c.l. (20 tons), mines ton 122.50 - —
5M, c.l. (30 tons), mines ton 116.50 - —
5R, c.l. (20 tons), mines ton 110.00 - —
6D, c.l. (30 tons), mines ton 78.00 - —
7D, c.l., (30 tons) mines ton 68.50 - —
7F, c.l. (30 tons), mines ton 65 00 - —
7H, c.l. (30 tons), mines ton 55.00 - —
7K, c.l. (30 tons), mines ton 46.00 - —
7M, c.l. (30 tons) mines ton 40.00 - —
7R, c.l. (30 tons), mines ton 39.00 - —
7T, c.l. (30 tons), mines ton 37 00 - —
7RF, c.l. (30 tons), mines ton 40.00 - —
7TF, c.l. (30 tons), mines ton 40.00 - —
8S, c.l. (30 tons) mines ton 37.00 - —
Asbestos c.l. prices are in U. S. funds. L.c.l. lots, $4 per ton higher.

Asphalt, gilsonite, black, seconds, 300°-390° F. fusing point not uniform, bgs., c.l., Craig, Colo.; Heber City, Utah ton 34 00 - —
select, 350° F. fusing point, bgs., c.l., same basis ton 38.00 - —
270°-295° F. fusing point bgs., c.l., same basis ton 37 00 - —
jet, bgs., c.l., same basis ton 34.00 - —
Manjak, No. 10, crude, dms., works lb. .06½ - —
Petroleum, cut-back, tanks, tank-wagon, refinery gal. .09 - —
emulsion, tanks, tank-wagon refinery gal. .09½ - .10
steam-refd., less than 80 penetration tanks, tankwagon refinery ton 22 00 - —
80-300 penetration, tanks, tank-wagon, refinery ton 21 00 - —
Aspirin (see Acid, Acetylsalicylic.)
Atropine, USP, bots oz. 9.25 - 10.00
Sulphate, USP, bots oz. 4.50 - 5.00

## B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds dried bgs lb. 1.35 - 1.45
Barberry root bark, bags lb. .28 - .30
tree bark, bgs. lb. .40 - .45
Barbital, USP, 100 lb. dms lb. 5.00 - —
Sodium, USP dms lb 5.25 - 5.27
Barium carbonate, precip., bgs., c.l., works ton 92.50 - —
smaller lots works ton 102.50 - —
Chlorate, kgs., works lb. .32 - .36
Chloride, anhyd., bgs., c.l., works ton 158.00 - —
l.c.l., works ton 168.00 - —
NF, cryst., dms lb. .16 - —
Chromate, bgs., frt. equald lb. .30 - —
Dioxide (see Barium peroxide).
Hydrate, crystals, bgs. ton 190.00 - 200.00
Iodide bots. lb. 6.14 - —
Monoxide (see Oxide)
Nitrate, bbls., c.l., works lb. .12½ - —
l.c.l., works lb. .14 - —
Oxide, grd., dms., c.l., frt. equald. ton 255.00 - —
l.c.l., works ton 285.00 - —
Peroxide, dms, works lb. 18 - —
Stearate, ctns., c.l. lb. .37 - —
ton lots lb. .38 - —
less ton lots lb. .39 - —

Barium sulphate, tech. (see Barytes and Blanc fixe).
X-ray, dms lb. .14 - .14½
Sulphide, dms., c.l., works ton 85.00 - —
l.c.l., works ton 95.00 - —
Barytes, Southern off-color, bgs., mines ton 25.00 - —
95.75%, bgs., mines ton 25.00 - —
water-grd., paper bgs., c.l., E. St. Louis ton 41.60 - —
ex-whse., N. Y. ton 60.10 - —
Bauxite, bulk, mines ton 9.50 - 10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls. lb. .28 - .32
root, bls. lb. .40 - .45
Bentonite, dom., 200 mesh bgs., works ton 14.00 - —
imported, Italian, white, high gel., bgs., 10 tons to c.l., ex dock ton 65 90 - —
5 ton-lots, ex whse ton 60.60 - —
1 ton-lots, ex whse ton 83 10 - —
low gel, bgs., 10 tons to c.l., ex dock ton 64.40 - —
5 ton-lots, ex whse ton 76.95 - —
1 ton-lots, ex whse ton 81.45 - —
Benzal chloride, cbys., works lb 22 - .23½
Benzaldehyde, NF, dms lb. .74 - 1.05
tech., cbys., dms lb. .44 - —
Benzene (see Benzol).
Hexachloride, 99% gamma isomer (see Lindane).
tech., bgs., dms., c.l., works, gamma unit-lb. .0075 - —
l.c.l., works, gamma unit-lb. .015 - —
dust, dry, distributors, dms., c.l., dlvd., gamma unit-lb. .013 - —
l.c.l., dlvd., gamma unit-lb. .014 - —
wet, distributors, dms., c.l., dlvd., gamma unit-lb. .02 - —
l.c.l., dlvd., gamma unit-lb. .021 - —

Benzidine hydrochloride, bbls., frt. alld., basis 100% lb. 1.00 - —
Benzocaine, dms lb. 3.43 - 3.50
Benzol, pure or nitration, tanks, works
Bethlehem, Pa gal. .42 - —
Birmingham district gal. .40 - —
Chicago district gal. .40 - —
Cleveland district gal. .40 - —
Geneva, Utah gal. .40 - —
Johnstown, Pa gal. .40 - —
Lackawanna, N. Y. gal. .42 - —
Lone star, Texas gal. .41 - —
Lorain, Ohio gal. .40 - —
Minnequa, Colo gal. .39 - —
Philadelphia district gal. .42 - —
Pittsburgh district gal. .40 - —
Sparrows Point, Md gal. .42 - —
Syracuse, N. Y. gal. .40 - —
Terre Haute, Ind gal. .41 - —
Youngstown, Ohio gal. .40 - —
Benzophenone dms lb. 1.40 - 1.70
Benzonitrile, dms., c.l., works lb. .46¾ - —
l.c.l., works lb. .47 - —
Benzotrichloride, cbys., frt. equald. lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .21½ - .24½
l.c.l., same basis lb. .22½ - .23½
Peroxide, pure, fib. ctns., works, lb 90 - 1.05
Benzyl acetate, f.f.c., cns., dms lb. .65 - 1.05
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms lb. .65 - 1.10
Chloride, tech., cbys., dms., c.l., works, frt. equald lb. .20½ - .23½
l.c.l., same basis lb. .21½ - .24½
High grade benzyl chloride, 2c. higher.

Benzyl cinnamate, cns. lb. 3.30 - 3.75
Formate, cns. lb. 1.30 - 2.10
Propionate, bots lb 1.35 - 1.80
Salicylate, bots lb. 1.55 - 1.85
Benzylidinacetone, bots. lb. 1.68 - 2.03
Benzylisoeugenol, cns. lb. 8.60 - 9.10
Berberine bisulphate, cns lb. 35.00 - 36.25
Hydrochloride, bots lb. 35.00 - 36.25
Betagammapicoline, 5°, dms., c.l., works lb. .31 - .32½
l.c.l., works lb. .32 - .33
Betamethylnaphthalene, 32°C m.p., dms., works lb. .90 - —
Betanaphthol, resublimed, dms., works lb. .78½ - —
tech., bbls., c.l., works lb. .32½ - —
l.c.l., works lb. .34½ - —
Benzoate, fib dms., works lb 3.00 - —
custom contract lb. 1.65 - 1.85
Salicylate, dms lb 5.00 - —
Sulphate, cns lb. 35.00 - 36.25
Betanaphthylamine, tech., bbls., works lb. 1.05 - 1.10
Betaphenylethylamine, dms., works, 1,000-lb. lots lb. 1.10 - —
smaller lots lb. 1.15 - 1.40
BHC (see benzene hexachloride, technical).
Biotin, cryst., bots gram 10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, jars lb. 5.11 - —
Hydroxide, dms lb. 4.65 - —
Metal, bxs. ton lots lb. 2.25 - —
Nitrate, cryst., dms lb. 2.10 - —
Oxide, anhydrous, dms lb. 4.47 - 5.05
Oxychloride, dms lb. 4.37 - 4.42
Phenolsulphonate, fib dms lb. 5.22 - —
Subcarbonate, USP, dms lb. 3.20 - —


FOR THE

COATING INDUSTRY:

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Eastman's new low-viscosity cellulose acetate butyrate is generating tremendous interest among users and formulators of protective and decorative coatings. Its high solubility and slow viscosity build-up in solvents such as ethyl alcohol and toluene bring to finishers the unique advantages of cellulose acetate butyrate in a form that permits its use in economical formulations requiring a high non-volatile content.

No other easily sprayable film former exhibits, to such a high degree, the stability of half-second butyrate in the presence of ultra-violet light and the outstanding retention of its initially low color, high strength and flexibility, both indoors and out.

To further acquaint you with half-second butyrate and to assist you in evaluating it for your own requirements, we have prepared a sixteen page booklet containing comprehensive data on the compatibility of this new film former with some 125 natural and synthetic resins, oils and waxes. This data includes such factors as hardness, tensile strength, flexibility and the effects of underwater immersion. Also included are formulation suggestions for wood, paper, metal and plastic finishes, heat-sealing adhesives and melt coatings.

WRITE FOR YOUR COPY TODAY! SALES OFFICES: Eastman Chemical Products, Inc., Kingsport, Tenn.; New York—260 Madison Ave.; Framingham, Mass.—65 Concord St.; Cleveland—Terminal Tower Bldg.; Chicago—360 N. Michigan Ave.; St. Louis—Continental Bldg.; Houston—412 Main St. West Coast: Wilson Meyer Co., San Francisco—333 Montgomery St.; Los Angeles—4800 District Blvd.; Portland—520 S. W. Sixth Ave.; Seattle—821 Second Ave.

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Kingsport, Tennessee
PLEASE SEND ME: ☐ Half-second butyrate booklet. ☐ Sample of half-second butyrate
NAME .....
POSITION .....
COMPANY .....
STREET .....
CITY ..... ZONE ..... STATE .....

## Bismuth Subgallate—Calamine

Bismuth subgallate, NF, fib. dms lb. 3.15 - —
Subiodide, fib. dms lb 5.37 - —
Subnitrate, NF, dms lb 2.65 - —
Subsalicylate, USP, dms lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb 4.22 - —
Black, acetylene, bgs., c.l., works lb. .16 - —
cs, l.c.l., ship't point lb. .20 - .22
Bone, dms., l.c.l., frt. alld lb. .15½- .23
Pacific coast bone black prices, 2c. per lb higher
Carbon, channel, heads, bulk, c.l., works lb. .07 - —
bgs., c.l., works lt. .0740- —
l.c.l., dlvd. or whse lb. .1225- —
uncompressed, regular bgs., c.l., works lb. .12 - —
l.c.l., dlvd. or whse lb. .19 - —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns. l.c.l., whse lb .10 - —
high abrasion, bulk, c.l., works. lb. .0750- —
bgs., c.l., works lb. .0790- —
l.c.l., dlvd. or whse lb. .122 - .125
high modulus, bgs., c.l., works lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., cns., l.c.l., whse lb. .085 - —
Charcoal (see C).
Graphite (see G)
Iron oxide, pure, bgs., c.l., works. lb. .12¾- —
l.c.l., works lb. .13 - —
Black, lamp, bgs., c.l., works lb. .16 - .45
Mineral, bgs. works lb. .0180- .0675
Black ash (see Barium sulphide).
Blackberry root bark, bls lb. .40 - .45
Black dyes (see Dyes).
Black haw root bark, bls lb. .65 - 70
tree bark, bls lb. .40 - .42
Blanc fixe, dry, by product, bgs., c.l., works ton.106.50 - —
l.c.l., works ton.116.50 - —
direct process, bgs., c.l., works ton.100.00 - —
l.c.l., works ton.110.00 - —
N. Y. whse ton.140.88 -155.00
Blanc fixe, pulp, 70%, bbls., c.l., works ton.105.00 - —
l.c.l., works ton.115.00 - —
Bleaching powder, dms., c.l., works. 100 lbs 5.02 - —
l.c.l., works 100 lbs. 6.52 - —
Blood, dried, 16-16½% ammo., bgs., unit-ton. 5.25 - —
high-grade, unground, 16-17% ammon., bgs., Chicago unit-ton. 5.75 - —
soluble, bgs., c.l. lb. .16½- .18
l.c.l. lb. .18 - .25
Bloodroot, bls lb. .60 - —
Blue, alkali dry, bbls., dlvd. N or Tenn. and N C., E of Miss R. including St Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 2.00 - —
toner, bbls. litho flushed same basis lb. 1.15 - —
Chinese, bbls., same basis lb. .48 - —
Blue, cobalt, genuine, bbls., same basis lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper-phthalocyanine, full strength, bbls., same basis lb 3.85 - —
resinated, bbls, same basis lb. 3.40 - —
water dispersable lb. 1.54 - —
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA bbls., same basis lb. 2.60 - —
tungstated, PTMA, bbls., same basis lb. 4.05 - —
Milori, bbls., same basis lb. .48 - —
Peacock, fugitive, 100% color strength, bbls., same basis lb. .75 - —
Potash, CP, bbls. same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .48 - —
soluble, bbls., same basis lb. .48 - —
Soda, C.P., bronze, bbls., same basis lb. .48 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls., same basis. lb. .16½- .18½
regular types, dry, bbls, same basis lb. .22½- .35
Victoria toner, molybdic, PMA, bbls. lb. 4.10 - —
tungstated, PTMA, bbls lb. 5.35 - —

Blue dry colors, dlvd. prices 4c higher Ala., Fla., Ga., La. (Shreveport, 1½c), Miss., N C., S C., Tenn. Tex. (El Paso 2c.) Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1 6c higher. Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago.

Blue dyes (see Blue).
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Bonemeal steamed, works, E. ton.55.00 - —
Bone phosphate, defluorinated (see D), of lime (see Calcium phosphate, tribasic).
precipitate, (see Calcium phosphate tribasic, NF, precip.).
Bones, raw, bulk, Atlantic ports ton.60.00 - —
Borax, tech, anhydrous, bgs., c.l., works ton.78.00 - —
ton lots ex whse, N. Y. or chi ton.125.75- —
smaller lots, same basis. ton.130.75- —
bulk, c.l., works ton.70.00 - —
crystals, 99%, bgs., c.l., works. ton.67.25 - —
ton lots, ex-whse., N. Y. or Chi. ton.115.00 - —
smaller lots, same basis. ton.120.00 - —
bbls., c.l., works ton.91.75 - —
ton lots, ex-whse., N. Y. or Chi. ton.139.50 - —
smaller lots, same basis. ton.144.50 - —
gran., 99½%, bgs., c.l., works. ton.41.25 - —
smaller lots, same basis. ton.89.00 - —
ton lots, ex whse., N. Y. Chi. ton.94.00 - —
bbls., c.l., works ton.65.75 - —
ton lots, ex-whse., N. Y. or Chi. ton.113.50 - —
smaller lots, same basis. ton.118.50 - —
bulk, c.l., works ton.35.75 - —
powder, 99½%, bgs., c.l., works ton.46.25 - —
ton lots, ex-whse., N. Y. or Chi. ton.94.00 - —
smaller lots, same basis. ton.99.00 - —
bbls., c.l., works ton.70.75 - —
ton lots, ex-whse., N. Y. or Chi. ton.118.50 - —
smaller lots, same basis. ton.123.50 - —

Borax packed in kgs., $45.50 per ton higher than in paper bgs. USP borax $15 per ton higher.

Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point lb. .18 - .24
l.c.l. same basis lb. .19 - .26
Borneol, cns lb. 2.85 - 4.50
Borontrifluoride gas, cyls., truckload works lb. .62 - —
less truckload, works lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulphur)
Bromine, purified, cs., c.l., dlvd. E. of Rockies lb. .27 - —
l.c.l., up to 1,000-lb. lots, same basis lb. .29 - —
dms., lead-lined, dlvd. lb. .34 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 - 2.60
cbys. lb. 1.52 - —
Bromstyrol, bots lb. 5.40 - 5.70
Bronze powder, aluminum (See A), Gold, litho, cns., dms., works, lb. .75 - .85
moulding, cns., dms., works lb. .85 - 1.00
printing ink, cns., dms., works lb. 1.05 - 1.25
radiator, cns., dms., works lb. .80 - .85
Brown, iron oxide, pure, bgs., c.l., works lb. .13¾- —
l.c.l., works lb. .14 - —
Oxide, metallic, bgs., works lb. .04 - —
Sap, crystals, bgs. works lb. .12 - —
powdered bgs lb. .13 - —
Sienna, burnt, paper bgs., c.l., works lb. .04¼- .15¼
l.c.l., works lb. .04½- .15½
raw, paper, bgs., c.l., works lb. .04½- .13
l.c.l., works lb. .04¾- .13¼
Umber, burnt, American, bgs., c.l., works lb. .06 - —
l.c.l., works lb. .06¼- .07
Turkey type bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y. lb. .06¾- —
l.c.l., works lb. .07 - —
raw, American bgs., works lb. .06¼- .06½
Turkey-type, bgs., works lb. .06¾- .07
Vandyke bbls., works lb. .09½- .12
Brucine cns., 100-oz. lots oz. .20 - .35
Sulphate NF, cns., 100-oz. lots. oz. .15 - .30
Buchu leaves, bls lb. .35 - .40
Butadiene, refined, cyls., refinery lb. .22 - —
tanks, refinery lb. .15 - —
Butane, indust., tanks, group 3 gal. .04 - —
Butyl acetate, fermentation, normal, dms. c.l. frt alld lb. .14¾- —
l.c.l., same basis lb. .15½- —
tanks, same basis lb. .13 - —
synthetic, normal, dms., c.l., dlvd. E. lb. .14¾- .15
l.c.l., same basis lb. .15½- .16
tanks, same basis lb. .13 - —
secondary, dms., c.l., dlvd. E. lb. .12½- —
l.c.l., same basis lb. .13¼- —
tanks, same basis lb. .10¾- —
Alcohol (see Alcohol butyl)
Aldehyde, dms., c.l., dlvd lb. .21¼- —
l.c.l., dlvd. lb. .22¼- —
tanks, dlvd. lb. .19½- —
Chloride, dms., c.l., works lb. .37½- —
l.c.l., works lb. .38 - —
Ether (see Ether butyl)
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .35 - —
l.c.l., same basis lb. .36 - —
tanks, same basis lb. .33 - —
Laurate, dms. works lb. .39 - —
Methacrylate normal, dms., less truckloads, works lb. .70 - —
Oleate, refd., dms., l.c.l., works lb. .36 - —
Phenylacetate, dms lb. 6.50 - 6.60
Phthalate (see Dibutyl phthalate).
Stearate, dms., l.c.l., frt. equald lb. .24 - .27½
Butylamine (see Mono., Di- or Tri-).
Butyric ether (see ethyl butyrate).

## C

Cacao butter (see Cocoa butter)
Cadmium iodide, jars lb. 6.75 - 7.05
Metal ingots or sticks, cs., dlvd. lb 2.00 - —
Stearate, dms., ton lots lb. 1.42 - —
smaller lots lb. 1.44 - —
Caffeine, natural, USP, cryst., dms., 100 lb lots or more lb. 2.80 - —
anhydrous, dms lb. 3.00 - —
synthetic, USP, cryst., dms., 100 lb. lots or more lb. 2.80 - —
anhydrous, dms., 100 lbs. or more lb. 3.00 - —
Citrated, USP, dms., 100 lb. lots or more lb. 2.65 - —
Calamine, USP, dms lb. .34 - —


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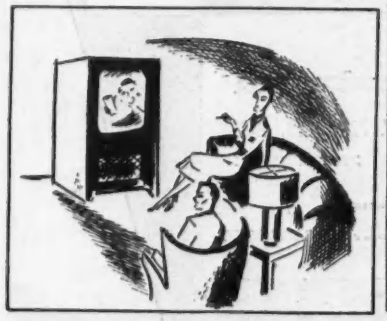

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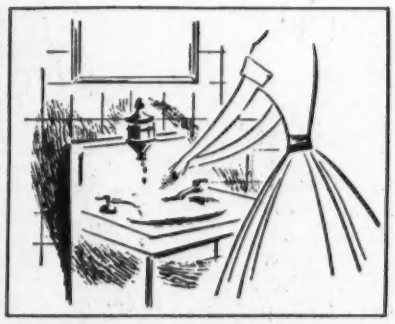
**Talc**—for face powder or for paints, paper, plastics, pharmaceuticals, etc. A range of grades for varying applications.



**Caustic Potash**—for soap making, special iron-free grade 45-50%. Other solid and liquid grades for all purposes.

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Calciferol, cryst., vials, 1 kilo lots, works gram .80 - —
25 to 100 gram lots, works, gram .90 - .95
in edible oil dms., 10,000 or more standard units (1 standard unit equals 1,000,000 USP units), works unit .04¾- —
1,000 to 10,000 standard units, works unit .05¼- —
less than 1,000 standard units, works unit .05¾- —

Calcium arsenate, dealers, dms., c.l., whse. works, frt. alld. on 96 lbs. or over lb .09 - .10
l.c.l., same basis lb .10 - .11
Bromide, NF, jars lb .92 - .94
Carbide, standard generator size, dms. c.l., dlvd ton 134.40 - —
Carbonate, natural, dry-grd., air floated, 99.5%—325 mesh, bgs., c.l., works ton 7.50 -10.00
chalk, whiting, 325 mesh, bgs., works ton 32.00 -34.00
water-grd., ½ to 10 microns, bgs., c.l., works ton 30.00 - —
10 to 20 microns, bgs., c.l., works ton 17.00 -18.00
precipitated, dense, bgs., c.l., works ton 30.00 -33.00
l.c.l., works ton 40.00 -48.00
medium, bgs., c.l., works ton 35.00 - —
l.c.l., works ton 45.00 -50.00
surface treated, bgs., c.l., works ton 35.00 -50.00
l.c.l., works ton 45.00 -65.00
ultrafine, bgs., c.l., works, ton 110.00 -160.00
l.c.l., works ton 120.00 -175.00
Chloride, cryst., purified, bbls., jars lb .28 - —
flake, 77-80% paper bgs., c.l. works, frt. equald ton 27.00 - —
liquor 40%, tankcars works frt. alld ton 11.50 - —
pellets, bgs., c.l., works ton 33.00 - —
powder, bgs., c.l., works ton 37.65 - —
solid, 73-75% dms c.l., frt equald ton 25.50 - —
l.c.l. works, same basis ton 34.00 -71.00
USP, gran., dms lb .40 - —
Chromate, bgs., frt. equald lb .29½ .30
Cyanide, dms. dlvd E of Rockies, lb .24 - .50
Gluconate, AA, bbls., dms lb .70 - .72
USP, bbls., dms lb .63 - .65
Glycerophosphate, NF, fib. dms, lb 2.30 - 2.45
Hydride, dms., works lb 2.20 - 4.00
Hypochlorite, high test, cased (45 lbs.), dlvd. E. of Rockies cs 22.60 -24.75
dms., 100-lb., same basis dm 28.65 -32.50
Hypophosphite, dms., ton lots or less lb .90 - .93
Iodide, jars lb 4.52 - —
Lactate, USP dms., 10,000-lb. lots or more, works lb .40 - —
smaller lots, works lb .41 - .48
Mandelate, USP dms., works lb 2.10 - 2.25
Naphthenate, liq., 4% Ca, dms., frt. equald lb .27¼- —
Nitrate, tech., bbls., works lb .13 - —
fertilizer grade, bgs., c.l., Los Angeles ton 49.25 - —
Pantothenate, dextro, jars, 100 gram lots or more, frt. adjusted gram .07½- —
Para-aminosalicylate, fib. dms., 1,000-lb. lots or more, frt adjusted lb 7.00 - —
smaller lots, same basis lb 7.05 - 7.50
Phenolsulphonate, dms lb .70 - —
Phosphate, dibasic, USP, bgs., c.l., 100 lbs 7.10 - —
l.c.l 100 lbs 7.60 - 7.95
feed grade, bgs., c.l., works, ton 80.00 -90.00
l.c.l., bgs., works ton 85.00 -95.00
monobasic, bgs., 10,000-lb. lots, works, frt. equald lb 6.40 - —
smaller lots, same basis lb 6.90 - —
tribasic, precip., NF, bgs., c.l., works, 110 lbs 7.60 - —
l.c.l., works 100 lbs 7.95 - —
Phytate, bgs., works lb .37 - —
Resinate, precip., dms., frt. alld., works lb .27¾- —
Silicate, hydrated, bgs., c.l., works, lb .06 - —
l.c.l., works lb .06½- —
Stearate, ctns., c.l. lb .35 - —
ton lots lb .36 - —
less ton lots lb .37 - —
Sulphate (see Gypsum)
Calcium-strontium sulphide, phosphorescent steel pails, 100 to 999 lb. lots, works lb 2.60 - 3.50
fine particle size, same basis, works lb 2.65 - 3.75
Calomel, USP powd. dms lb 4.02 - 4.05
Camphene, 46° m.p., dms. incl., c.l., works lb .1930- —
l.c.l., same basis lb .1980- .2115
tanks, same basis lb .1660- —
Chlorinated, 67-69% (see Toxaphene).
Camphor monobromated, NF, dms., kgs lb 3.00 - 3.12
natural, USP, powd., bbls., 100-lb. lots lb .48 - .50
tablets, 1-oz., ½-oz. cs lb .63 - .65
synthetic, tech., bbls., 10 bbls., 1,500-lb. lots lb .55½- —
smaller lots lb .56 - .66
USP, gran powd, bbls, 2,000-lb. lots lb .57 - —
1,000-lb. lots lb .58 - —
smaller lots lb .59 - —
tablets, tins, 2,000-lb. lots lb .90 - —
1,000-lb. lots lb .91 - —
smaller lots lb .92 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb 2.00 - 2.05
powd., bxs. lb 2.25 - 2.30
Russian, bgs. lb 4.00 - 4.05
powd., bxs. lb 4.35 - 4.40
Capsicum (see Pepper, red).
Oleoresin NF from domestic pepper, dms lb 4.25 - 5.75
from African pepper, dms lb 4.75 - 6.25
Caramel coloring, NF, bbls gal 1.05 - 1.20
Caraway seed, Dutch, bgs lb .11 - —
Carbazole, 97% bbls. ton lots, works lb 1.05 - —
Carbinol, methylisobutyl, dms, c.l., dlvd lb .15 - —
l.c.l., same basis lb .16 - —
tanks, same basis lb .13 - —
Carbon bisulphide, 55 gal. dms., c.l., works, frt. alld competitive points lb .0750- —
l.c.l., same basis lb .0850- —
5-gal. dms., c.l., same basis lb .1025- —
l.c.l., same basis lb .1125- —
tankcars same basis lb .0525- —
Dioxide, industrial, wholesale, cyl lb .08 - —
Tetrachloride CP, dms., works lb .11 - .13¾
NF, chys lb .17 - .18
tech., dms., c.l., E of Rockies, frt. alld lb .0925- —
W of Rockies, f.o.b. stockpoints lb .0975- —
l.c.l., E of Rockies, frt. alld. lb .115 - —
Carbon tetrachloride, tech, dms., c.l., W. of Rockies, f.o.b. stockpoints lb .12 - —
tanks, E. of Rockies, frt. alld. lb .0825- —
W of Rockies, f.o.b. stockpoints lb .0875- —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb lots, works lb 4.00 - 4.25
smaller lots, works lb 4.10 - 4.75
Cardamom fruit, bleached, A, cs., afloat lb 2.50 - 2.65
medium, cs. lb 3.20 - —
decorticated, Alleppey, cs lb 1.95 - —
Guatemalan, cs lb 1.70 - —
Mangalore type, cs. lb 1.95 Nom.
green, Alleppey, bgs lb 1.28 - 1.30
Ceylon, bgs lb 1.28 - 1.30
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100 lb. lots or more, dlvd lb 6.50 - —
smaller lots, dlvd lb 6.65 - 7.15
Carotene, technical, 1,350,000 A units per gram, tins, works gm .55 - —
in carrot oil 5,000,000 to 8,000,000 A units, per lb dms., works, million units .18 - —
microcrystalline in oil 400,000 A units per gram tins, works, million units .33 - —
Carvol, bots lb 4.75 - 9.65
Cascara sagrada bark, bulk lb .30 - .34
Casein, dom acid precip standard, bgs. 10,000-lb lots or more, ship't point lb .28 - .32
premium bgs. 10,000-lb lots or more, ship't point lb .35 - .40
imported, Argentine acid-precip., grd., 100-kg. lots or more, duty paid lb .24 - .26

Cashewnut shell liquid, treated dms., c.l., Newark, N. J lb .22 - —
ton lots, same basis lb .23 - —
dm. lots, same basis lb .25 - —
Cassia, Batavia, cuttings, bls lb .15½- —
longstick lb .17½- —
shortstick, bls lb .16½- —
Saigon, broken, bls lb .60 - —
medium, bls lb .65 - —
thin, bls lb No Prices
Castor beans, bgs., f.o.b. Brazilian ports long ton 130.00 Nom.
Oil (see Oil, castor)
Pomace, bgs., c.l., works ton 28.50 - —
Castoreum artificial, cns lb 9.00 - 9.25
natural, cns lb 5.00 -30.00
Catechol, CP, cryst., fib dms., works lb 2.17½- —
resublimed dms. works lb 4.29½- —
Catnip leaves, Southern, bls lb .75 - —
Celery seed, French, bgs lb .46 - .47
Indian, bgs lb .21 - .22
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., dlvd. lb .40 - .43
extrusion compounds, translucent metallic pearls, special black dms., c.l., same basis lb .52 - —
t.c.l. same basis lb .53 - .59
molding, composition, translucent, metallic pearls, special black, dms., c.l., frt. alld lb .48 - —
t.c.l., same basis lb .49 - .55
reprocessed black, dms., l.c.l, same basis lb .43 - .49
Cellulose acetate butyrate flake, 17% butyryl content, standard cartons, works lb .54 - —
27% butyryl content, standard cartons works lb .64 - —
38% butyryl content, standard cartons, works lb .54 - —
50% butyryl content, standard cartons works lb .63 - —
molding composition, plain colors, pearls, transparents, special black, dms., l.c.l. frt alld lb .64 - .71
reprocessed, black, dms., l.c.l., same basis lb .52 - .53
Triacetate, flake, ctns., works, frt. alld. or 100-lb. lots or more lb .50 - —
Cerium hydrate, 74% $CeO_2$, fib dms., 100-lb lots or more lb 1.44 - —
77% $CeO_2$, fib dms., 100-lb. lots or more lb 1.74 - —
Oxalate, NF, bbls., bgs., works lb 1.05 - —
Oxide, optical grade, bgs. 50-lb. lots or more, works lb 1.85 - 1.98
smaller lots, works lb 2.03 - 2.23
Chalk (see calcium carbonate).
Chamomile flowers, Hungarian style, cs lb .90 - 1.00
Roman, cs lb 1.00 - 1.15
Charcoal, activated, NF, fib dms., c.l., works lb .25 - .32
5-ton lots, works lb .28½- .32½
smaller lots works lb .27 - .30
Bone (see Black, bone).
Hardwood, briquets, bgs., c.l., works ton 77.00 -88.00
granular bgs. works ton 77.00 - —
bulk, c.l., works ton 70.40 - —


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## Charcoal, Pinewood—Corn Syrup

Charcoal, pinewood, gran., powd., bgs., c.l., works, south ton 53.50 - —
l.c.l., works, South ton 53.50 -63.50
lump bgs., c.l., works, South ton 50.00 - —
l.c.l., works, South ton 53.00 -67.50
bulk, c.l., works, South ton 33.50 —
Chestnut extract, liquid, 25% tannin, bbls., c.l., works lb .0530- —
l.c.l., works lb .0565- —
tanks, works lb .0440- —
powd., 60% tannin, bgs., extra, c.l., works lb .1128- —
l.c.l., works lb .1200- —
Chloral, tech., 94% min., dms., c.l. works lb .23 - —
l.c.l., works lb .24 - —
tanks, works lb .21 - —
Chloral hydrate, USP, 40-lb. jars, 1,000-lb. lots lb 1.30 - —
500-lb lots lb 1.33 - —
100-lb lots or less lb 1.35 1.40
Chloramine T, NF, bbls., works lb .75 - 1.00
Chlordane, agricultural, dms., pails, c.l., frt. alld lb .65 - —
l.c.l., frt. alld lb .66 - .73
refined, dms., c.l., frt. alld lb .75 - —
l.c.l., frt. alld lb .76 - .83
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb .14 - —
l.c.l. lb .14¾- —
70%, dms., c.l., same basis lb .18 - —
l.c.l., same basis lb .19 - —
Rubber, S, 10, 20 cpts., ctns., c.l., works lb .55 - —
l.c.l., works lb .57 - —
123, 1,000 cps., ctns., c.l., works lb .60 - —
l.c.l., works lb .61 - .69

Chlorine, liquid, cyls., c.l., works, frt. equald lb .0625- .1125
l.c.l., N. Y. stock points lb .1025- —
tanks, single units, works, frt. equald 100 lbs 2.93 - —
multiple units, 5 cars, works, frt. equald 100 lbs 3.80 - 3.83
3 cars, same basis 100 lbs 3.80 - —
2 cars, same basis 100 lbs 5.00 - —
1 car, same basis 100 lbs 6.00 - —
Chloroform, tech., dms., c.l., dlvd. E lb .18 - .183
l.c.l., same basis lb .192 - .20
tanks, same basis lb .17 - .171
USP, dms lb .30 - .35
Chloro (4), —2 amino-toluene, bbls lb 1.38 - —
Chlorophyll, oil soluble, 4%, not fixed, tins, pails, works lb 4.25 - —
copper fixed, 6½% tins, pails, works lb 4.25 - —
Sodium-copper, aqueous solut., 4% dms., pails, works lb 3.75 - —
8%, pails, dms., works lb 4.00 - 4.80
14%, dms., works lb 8.90 - —
concentrated, dom., 50%, dms., works, basis 100% lb.55.00 -60.00
75%, dms., works, basis 100% lb.45.00 -60.00
90%-100%, dms., works, basis 100% lb.45.00 -60.00
imported .60%, tins, basis 100% lb.58.00 - —
90%, tins, basis 100% lb.58.00 - —
75%, tins, basis 100% lb.58.00 - —
Chloropicrin, com'l, bots lb 1.50 - —
cyls., 150 lbs. frt alld lb .93 - —
100 lbs. same basis lb .97 - —
25 lbs., same basis lb 1.25 - —
Cholesterol, USP, 5lb dms., 100-lb lots lb 6.85 - —

Choline bitartrate, fib. dms., frt. adjusted lb 1.50 - 1.75
Chloride, fib. dms., frt. adjusted lb 1.50 - 1.75
Dihydrogen citrate, fib. dms., frt. adjusted lb 1.50 - 1.75
Chromium acetate powd. 33% Cr., bbls. works lb No stocks.
solut., 7½% bbls. works lb .08½ —
cbys. works lb .10¼ —
8½%, bbls. works lb .09 - —
cbys. works lb .10¾- —
Fluoride, bbls., works lb .51 - .52
Green (see Green chrome).
Oxide (see Green, chromium oxide).
Oleate, solid, bbls lb .40 - —
Trioxide NF bots lb .82 - .89
Yellow (see Yellow chrome).
Chrysarobin, USP bots lb 6.50 - 8.00
Cinchona bark, NF, red, broken, bgs lb .28 - .30
yellow broken, bgs lb .28 - .30
Cinchonidine, cryst., cns. 100-oz. lots. oz .65 - —
Sulphate, cns., 100-oz. lots oz .37 - .40½
Cinchonine cryst. cns., 100-oz. lots. oz .52 - .57
Sulphate, NF, cns., 100-oz lots oz .27½- .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb 3.70 - 4.05
standard density, dms., same basis lb 3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted lb 4.50 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Aldehyde, NF cns., dms lb 1.00 - 1.30
Cinnamon, Ceylon, No. 2, bls "0000," bgs lb .31 - —
Citral, bots., cns lb .40 - .41
Citronellal, bots., dms lb 3.00 - 3.75
Citronellol, bots., dms lb 1.50 - 2.00
Citronellol bots., dms lb 4.75 2.20
Civet, artificial bots lb 13.75 -15.00
natural, bots oz 7.50 -15.00

Clay, ball, dom., airfloated, bgs., c.l., Tenn. ton 19.50 - —
crushed, bulk, Tenn. ton 10.00 - —
purified, bgs., c.l., Tenn. ton 20.50 - —
ton 20.50 - —
imported, airfloated, bgs., c.l., Atlantic port lump ton 43.00 -45.00
lump, bulk, Atlantic port ton 27.00 -30.00
China, dom. dry-grd., air-float, 99%, 325 mesh, bgs., c.l., Georgia, works ton 10.50 - —
l.c.l., Georgia, works ton 15.50 - —
300 mesh, bgs., c.l., N. Y. area, works ton 13.50 -14.50
l.c.l. ton 35.00 -36.00
imported, white, lump, bulk, c.l., ex dock, Phila., Portland, Me. gross ton 20.00 -40.00
powd., bgs., c.l., ex dock net ton 50.00 —
l.c.l., ex whse net ton 60.00 -65.00
Clove, Ceylon, bls lb No Prices
Zanzibar, bls lb 1.35 - —
CMC, purified, high vis. (see Gum cellulose), standard low vis. bgs. 23,000 lbs. or over, works, frt alld lb .60 - —
smaller lots, same basis lb .62 - —
medium vis. bgs., 23,000 lbs. or over works, frt alld lb .57 - —
smaller lots, same basis lb .59 - —
technical high vis. 58% purity, bgs., 20,000 lbs or more, dlvd. E., 100% basis lb .56 - —
2,000 to 20,000 lbs. dlvd. E. lb .58 - —
less than 2,000 lbs. dlvd E. lb .62 - —
low vis., 80% purity, bgs., or fib. dms., 23,000 lbs. dlvd E., basis 100% lb .41 - —
less than 23,000 lbs. dlvd. E., basis 100% lb .43 - —
63% purity, bgs., or fib. dms., c.l., dlvd. E., basis 100% lb .41 - —
l.c.l., dlvd. E., basis 100% lb .43 - —
58% purity, bgs., c.l., dlvd. E. basis, net weight lb .34 - —
l.c.l., dlvd. E lb .36 - —
47½% purity, c.l., dlvd., E., basis 100% lb .41 - —
l.c.l., dlvd. E lb .43 - —
36½% purity, bgs., c.l., dlvd. E., basis net weight lb .13½- —
l.c.l. dlvd. E lb .20 - —
CMC prices W. of the Rockies are 1c. per lb. less than dlvd. E. prices.

Coaltar, crude, resale dms., c.l., ex-whse gal .275 - .3025
l.c.l., ex-whse. gal .285 - .3135
tanks, ex works gal .154 - .165
refined, resale, dms., c.l., ex-whse. gal .2850- .3135
l.c.l., ex-whse gal .2950- .3245
tanks, ex-whse gal .1650- .1760
Cobalt acetate, 23.7% bbls., dlvd lb 1.30 - —
Carbonate, 46%, powd., bgs., dlvd lb 2.15 - —
Chloride 24.2% Co. kgs. dlvd., lb 1.20 - —
Hydrate, 60-61% Co., bbls., dlvd. lb 2.72 - —
Linoleate fused, 8½% Co., dms. lb .72 - —
liquid, 6% Co., dms lb .53¾- —
Metal, 97-99% kgs., ex whse lb 2.40 - —
Naphthenate, liquid 6% Co. dms., lb .45¾- —
Nitrate, 20.1% Co., bbls., dlvd lb 1.06 - —
Phosphate, powdered 32.1% Co., kgs., dlvd lb 1.69 - —
Oxide, black, 70-71% Co., kgs lb 1.76 - —
Resinate, fused, 5% Co., dms lb .27 - —
Sulphate, cryst., 21% Co., dms., dlvd lb .89 - —
monohydrated, 33% Co., dms. dlvd lb 1.40 - —
Tallate, 6% Co., dms lb .42½- —
Cocaine, USP, cns., 100-oz. lots oz 15.00 - —
Hydrochloride, cns., 100-oz. lots. oz 11.75 - —
Cochineal USP gray bgs lb .68 - .90
Cocillana bark, bgs lb .40 - .48
Cocoa butter, bgs. lb .76 - —
Codeine, NF, cns. 100-oz. lots oz 13.25 - —
Hydrochloride, cns., 100-oz. lots. oz 11.75 - —
Phosphate, USP cns., 100-oz. lots. oz 10.25 - —
Sulphate, USP, cns., 100-oz. lots. oz 10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb .22 - .25
blue, bls. lb .22 - .26
Colchicine, USP, bots., cns oz 65.00 -70.00
Colchicum root, bls lb .45 - .60
Seed, bgs lb .80 - 1.10
Collodion, USP, dms lb .32¼- —
flexible, USP, dms lb .34 - —
Colocynth, pulp, bls lb .25 - .30
Colombo root, bls. lb .18 - .20
Copper acetate, bbls., c.l., works lb .34¾- —
l.c.l., works lb .35¾- —
Carbonate, 55%, bgs., works lb .263 - .278
Chloride, anhyd., bbls., works lb .39 - —
crystals, bbls., works lb .26¼- —
Cyanide tech., bbls., 1,000-lb. lots or more lb .619 - —
less than 1,000-lb. lots lb .639 - —
Gluconate, cns., dms lb 3.00 - 3.24
Hydrate, dms., frt. alld. E. Miss. lb .40¼- .40¾
Metal, electrolytic, dlvd., Valley basis lb .29 - .30
Naphthenate, liquid, 8% Cu., dms., frt. alld lb .22¾- —
Nitrate, tech., cryst., bbls., works. lb .30½- —
Oleate, solid, 9% Cu, dms., works lb .43 - —
Oxide, black, bbls., works lb .39 - .47¼
red, com'l, bbls., works lb .42½- .49¼
Oxychloride, bls., frt. alld lb .40 - .50¼
Quinolinolate, fib. dms lb 4.25 - 4.50
Resinate, precip., dms., frt. alld lb .27¼- —
Stearate, bgs., 5 tons to c.l., dlvd. lb .37½- —
ton lots, dlvd lb .38½- —
smaller lots, dlvd lb .39½- —
Sulphate, cryst., 99%, bgs., c.l., works 100 lbs.10.35 - —
l.c.l. 100 lbs.10.60 -11.35
CP, gran., bbls., works lb .1715- —
monohydrated, 35% dms., c.l., works 100 lbs.17.10 -17.65
tribasic, dealers, bgs., c.l. works, frt. alld 100 lbs.22.50 - —
l.c.l., works 100 lbs.23.00 -24.50
USP, gran., cryst., dms lb .1715- —
Undecylenate, dms. lb 2.90 - 3.00
Copperas, gran., bgs., c.l., works ton 34.50 - —
l.c.l., dlvd. Metro area 100 lbs. 3.35 - 4.25
bbls., c.l., works ton 40.00 - —
bulk, c.l., works ton 27.00 - —
Copra, Atlantic, Gulf ports, c.i.f. ton 202.50 - —
Pacific ports, c.i.f. ton 197.50 - —
Coriander seed, Argentine, bgs lb .13 Nom.
Czech, bgs lb .07 Nom.
Moroccan, bgs lb .07½- .08
Roumanian, bgs lb .07¼- .07½
Corn sugar, tanners, chipped, paper bgs. c.l. 60,000 lbs. min. 100 lbs 7.31 - —
bgs., l.c.l. 100 lbs 7.46 - —
Syrup, 42°, dms., c.l. 100 lbs 7.32 - —
l.c.l. 100 lbs 7.47 - —


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**INORGANIC CHEMICALS:** Soda Ash • Caustic Soda • Bicarbonate of Soda • Purecal® (Calcium Carbonate) • Chlorine • Hydrogen Dry Ice • Calcium Chloride

®Reg. U.S. Pat. Off.

| | | | |
|---|---|---|---|
| Corrosive sublimate, NF, cryst., dms., 50-lb lots or more | lb. | 3 68 | — |
| gran. powd., dms., 50-lb. lots or more | lb. | 3.53 | — |
| Cortisone acetate, NNR, bulk | gm. | 5.00 | — |
| Cottonseed mill ash, 32-36% potash, bgs., dlvd., unit-ton | | 1 50 | — |
| Meal, 41% expeller, sacked, mills, ton | | 58.00 | -60.00 |
| solvent, same basis | ton. | 58.00 | — |
| Coumarin cryst. NF, cns | lb | 2 94 | 3 15 |
| powd cans | lb | 3.20 | 3 25 |
| Cramp bark, NF, bls | lb. | .80 | .90 |
| Cream of tartar, NF, dom., gran. or powd., dms., c.l | lb. | .32 | — |
| bbls. 5,000 lbs. one shipment | lb. | .32½ | — |
| smaller lots, bbls., kgs. | lb. | .33 | .38 |
| imported, kgs. | lb. | .24 | .25 |
| Creosote carbonate, NF, bots., cbys. | lb. | 2.80 | 2.90 |
| Coaltar, crude, tanks, works, frt. adjusted | gal. | .22 | — |
| solution 80% tanks, works | gal. | .2068 | — |
| refined, dms., c.l., works | gal. | .3850 | — |
| l.c.l., same basis | gal. | .4510 | — |
| tanks, same basis | gal. | .2970 | — |
| Wood, beechwood, cbys., dms. | lb. | 1.35 | 1 40 |
| hardwood bots cbys | lb. | 1 05 | 1 10 |
| pinewood, dms., works | gal. | .42½ | .50½ |
| Cresol, tech. 50% below 204° C., dry above 207 C. wide distillation range, non-ret. dms. c.l. frt equald | lb. | .133 | — |
| l.c.l., same basis | lb. | .136 | — |
| ret. dms., c.l., same basis | lb. | .1325 | — |
| l.c.l., same basis | lb. | .1375 | — |
| tanks same basis | lb. | .120 | .1225 |
| USP non-ret. dms., c.l., same basis | lb. | .143 | — |
| l.c.l., same basis | lb. | .146 | — |
| ret dms., c.l., same basis | lb. | .140 | — |
| l.c.l., same basis | lb. | .145 | — |
| tanks, same basis | lb. | .130 | — |
| Crotonaldehyde, 91-93%, l.c.l., works | lb. | .24¼ | .25 |
| Cryolite, nat., industrial, bgs., c.l., works 100 lbs. | | 10 50 | — |
| l.c.l., works 100 lbs. | | 11.25 | -11.50 |
| Insecticide, dealers, bgs., c.l., dlvd 100 lbs. | | 14.00 | — |
| l.c.l., dlvd. 100 lbs. | | 15.00 | — |
| Cube root, powd., 5% rotenone, bgs., works | lb. | .23 | — |
| Cubeb berries, XX, NF, bgs | lb. | .50 | .51 |
| powd., cs. | lb. | .58 | .59 |
| Cumene, dms., c.l., works | lb. | .12 | — |
| l.c.l., works | lb. | .14 | — |
| tanks, works | lb. | .11 | — |
| Cumin seed, Iranian, bgs | lb. | .13½ | .13¾ |
| Moroccan, bgs | lb. | .14 | — |
| Turkish, bgs. | lb. | .13½ | — |
| Cutch extract, 55% tannin, bgs., ex dock, duty extra | lb. | .08½ | — |
| Cyanamide fertilizer mixing grades, 20.6% N, gran., bgs., Niagara Falls, Ont., contract ton | | 55.00 | — |
| pulv., 21% N, bgs., works unit-ton | | 2.75 | — |
| Cyclohexane, tech., dms., c.l., works, gal. | | .70 | — |
| l.c.l., dlvd | lb. | 1.10 | — |
| tanks, works | gal. | .55 | — |
| Cyclohexanol, tech., dms., c.l., works, frt. alld., E | lb. | .28½ | .37¾ |
| l.c.l., works, same basis | lb. | .30 | .38¼ |
| tanks, works, same basis | lb. | .27 | .36¼ |
| Cyclohexanone, tech., dms., c.l. | lb. | .33½ | — |
| l.c.l., works | lb. | .35 | — |
| tanks, works | lb. | .32 | — |
| Cyclohexylamine, dms., c.l., works, | lb. | .46½ | — |
| l.c.l., works | lb. | .47½ | — |
| tanks, works | lb. | .45 | — |
| Cyclopropane, CP, 2-lb. cyls., works, | cyl. | 48 00 | — |
| 6 oz. cyls., works | cyl. | 12.00 | — |
| USP, hospitals, cyls., 40-gal. lots | gal. | .38 | — |
| 100-gal. lots | gal. | .37 | — |
| 200-gal. lots | gal. | .36 | — |

## D

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| 2, 4-D, bbls., c.l., works, frt. equald. | lb. | .51 | — |
| l.c.l., same basis | lb. | .56 | .63 |
| Isopropyl ester, dms., c.l., works. | lb. | .55 | — |
| l.c.l., works | lb. | .60 | .67 |
| DDD, tech., fine grd., fib dms., c.l., works | lb. | .50 | — |
| l.c.l., works | lb. | .51 | — |
| DDT, fiber dms., c.l., works, frt. equald | lb. | .23 | — |
| smaller lots, same basis | lb. | .24 | .27 |
| Decanol, normal, tech., dms., c.l., dlvd | lb. | .35 | — |
| l.c.l., dlvd | lb. | .37 | — |
| tanks, dlvd. | lb. | .32½ | — |
| Deertongue leaves, bls | lb. | .45 | — |
| Defluorinated phosphate, 13% P paper bgs. works | ton | 49 25 | — |
| 17% P, paper bgs., works. | ton. | 58.00 | — |
| Rock, 14½% P, paper bgs. works | ton | 50 00 | — |
| Degras, common, bbls | lb. | .13 | .15 |
| neutral, less 2% ffa., bbls | lb. | .29 | .30 |
| over 2% ffa., bbls | lb. | .28 | .29 |
| Derris root, 5% rotenone powd., bbls | lb. | .26 | Nom. |
| Desoxyepnedrine hydrochloride, dextro, bots | lb. | 25.00 | — |
| dextro-laevo, bots. | lb. | 6.50 | — |
| Dextrin, corn, gum, paper bgs., c.l., N.Y. | 100 lbs | 8.95 | — |
| l.c.l. | 100 lbs | 9.10 | — |
| canary paper bgs, c.l. | 100 lbs. | 8.69 | — |
| l.c.l. | 100 lbs. | 8.84 | — |
| dark, paper bgs., c.l. | 100 lbs | 8.79 | — |
| l.c.l. | 100 lbs. | 8.94 | — |
| white, paper bgs., c.l. | 100 lbs. | 8.53 | — |
| l.c.l. | 100 lbs. | 8.68 | — |
| Corn dextrin in cotton bgs. 25c. per 100 lbs. higher. | | | |
| Potato, bgs. | lb. | .10½ | .11 |
| Dextrose, USP, dms | lb. | .17¾ | — |
| Diacetone (see Alcohol, diacetone). | | | |
| Diacetyl, flavor grade, bots | lb. | 4.50 | 5.50 |
| Diamyl ether (see Ether, amyl). | | | |
| Dianisidin, dms. | lb. | 2.00 | — |
| Diatomaceous earth, dom. bgs., c.l., Atlantic coast | ton | 52 00 | -55.00 |
| California | ton | 42.00 | -45.00 |
| l.c.l., ex whse | ton | 85 00 | -90.00 |
| purified, bgs., c.l., Atlantic coast | ton | 65.00 | — |
| California | ton. | 53.00 | — |
| l.c.l., ex whse | ton. | 95 00 | -100 00 |
| Atlantic coast | ton. | 95 00 | -100.00 |
| Imported, Mexican, white, bgs., c.l., Atlantic Coast | lb. | .03 | — |
| l.c.l., Atlantic Coast | lb. | .06 | — |
| Dibenzyl sebacate, CP, dms., c.l., works | lb. | .92 | — |
| l.c.l. works | lb. | .93¾ | — |
| tanks, works | lb. | .91 | — |
| Dibutyl phthalate, dms., c.l. dlvd., E | lb. | .35¾ | .36 |
| l.c.l., same basis | lb. | .36¾ | .37 |
| tanks, same basis | lb. | .34 | — |
| Dimethyl sebacate, dms., works | lb. | .81¾ | .82¾ |
| l.c.l. works | lb. | .82¼ | .83¾ |
| tanks, works | lb. | .80 | .81 |
| Tartarate, dms. works, frt. alld | lb. | .71 | — |
| Dibutylamine dms, c.l., dlvd | lb. | .54¾ | — |
| l.c.l., same basis | lb. | .55¾ | — |
| tanks, same basis | lb. | .53 | — |
| Dicaprvl phthalate, dms., c.l., dlvd. | lb. | .34½ | .34¾ |
| l.c.l., dlvd. | lb. | .35 | .35¾ |
| tanks, dlvd. | lb. | .33 | — |
| Sebacate dms., c.l., works | lb. | .68¼ | — |
| l.c.l., works | lb. | .68¾ | — |
| tanks, works | lb. | .66½ | — |
| Dichloroanilin, dms., works | lb. | .75 | .83 |
| Dichlorodiphenyltrichloroethane (see DDT). | | | |
| Dichloroethyl ether (see Ether, dichloroethyl). | | | |
| Dichloropentanes, dms., c.l., works. | lb. | .05 | — |
| l.c.l., works | lb. | .05¾ | — |
| tanks, works | lb. | .04¼ | — |
| Dicyclohexyl mine dms. c.l. works. | lb. | .51 | — |
| l.c.l., works | lb. | .51¾ | — |
| tanks, works | lb. | .49¾ | — |
| Dicyclohexylphthalate fib dms., c.l., frt. alld | lb. | .60 | — |
| l.c.l., same basis | lb. | .61 | — |
| Dieldrin, dms. frt. alld | lb | 1.80 | — |
| l.c.l., frt. allid | lb | 2.40 | — |
| Diethanolamine dms. c.l. dlvd E | lb | .29¼ | — |
| l.c.l. same basis | lb | .30¼ | — |
| tanks, same basis | lb | 27½ | — |
| Diethyl carbonate dms. c.l., frt. allid | lb | 46¾ | — |
| l.c.l. same basis | lb | 47¾ | — |
| tanks same basis | lb | 45 | — |
| Maleate, dms., c.l., dlvd | lb. | .50 | — |
| l.c.l. dlvd | lb | 48¼ | — |
| tanks dlvd | lb. | 48¼ | — |
| Diethyl oxalate, dms., c.l., frt. allid | lb. | .41¾ | — |
| l.c.l same basis | lb | .42¾ | — |
| tanks, same basis | lb | .40 | — |
| Phthalate, dms., c.l., dlvd | lb. | .23¾ | .27 |
| l.c.l., dlvd. | lb. | .27¾ | .28 |
| tanks, dlvd | lb | .25 | — |
| Sulphate dms. c.l., works | lb. | .18¾ | — |
| l.c.l works | lb. | .19¼ | — |
| tanks works | lb. | .17 | — |
| Diethylamine dms., c.l., dlvd. E | lb. | .50¼ | — |
| l.c.l. same basis | lb. | .51¼ | — |
| tanks, same basis | lb. | .48½ | — |
| Diethylanilin, dms. c.l., frt. allid., | lb. | .51 | — |
| l.c.l., same basis | lb. | .52 | — |
| tanks, same basis | lb. | .50 | — |
| Di-2-ethylhexyl adipate (see Dioctyl adipate). | | | |
| Di 2-ethylhexyl phthalate (see Dioctyl phthalate). | | | |
| Diethyleneglycol dms. c.l. dlvd E | lb | .20¼ | — |
| l.c.l. same basis | lb | .21¼ | — |
| tanks, same basis | lb. | .18½ | — |
| Borthorate dms l.c.l | lb. | .20½ | — |
| Diethylether, dms., c.l., works | lb. | .46½ | — |
| l.c.l works | lo | 47 | — |
| Monobutylether dms. c.l. works. | lb | 28¾ | — |
| l.c.l., works | lb. | .29¼ | — |
| tanks, works | lb. | .27 | — |
| Acetate, dms., c.l., works | lb. | .30 | — |
| l.c.l works | lb | 30¼ | — |
| tanks, dlvd. E | lb. | .25¼ | — |
| Monoethylether dms. c.l., dlvd | lb | 20¾ | — |
| l.c.l., dlvd | lb. | .21½ | — |
| tanks, dlvd | lb. | .19½ | — |
| Acetate, dms., c.l., works | lb. | .26¾ | — |
| l.c.l., works | lb. | .27¼ | — |
| tanks, dlvd. E | lb. | .25¼ | — |
| Diethyleneglycol monomethylether, dms., c.l., works | lb. | .24¾ | — |
| l.c.l. works | lb | 25¼ | — |
| tanks works | lb | 23½ | — |
| Diethylenetriamine dms. c.l. dlvd E | lb. | 43 | — |
| l.c.l. same basis | lb. | 44 | — |
| tanks, same basis | lb. | 41¼ | — |
| Diethylethanolamine dms c.l. dlvd | lb. | .67½ | — |
| l.c.l. same basis | lb | 68½ | — |
| tanks same basis | lb | 65¾ | — |
| Diethylstilbestrol, USP, bots., 10-kilo lots | kilo. | 110.00 | — |
| 1 kilo lot | kilo. | 120 00 | — |
| Digitalis leaves, USP, dom., dms., | lb. | .90 | 1.10 |
| Digitoxin, USP, bots. | gram. | 5.50 | 6.50 |
| Diglycol laurate, dms | lb. | .35½ | .42 |
| Oleate dms | lb | 28½ | 29½ |
| Stearate, dms | lb | 25 | 26½ |
| Dihexyl sebacate dms. c.l., works | lb | 76½ | — |
| l.c.l. works | lb. | 77½ | — |
| tanks works | lb. | 74¾ | — |
| Dihydrazine sulphate dms works | lb | 1 10 | 1.25 |
| Dihydrostreptomycin hydrochloride, bulk | gram. | .17 | — |
| Sulphate, bulk | gram. | .17 | — |
| Dihydroxydichlorodiphenylmethane, pure dms | lb | 2 80 | 3 00 |
| tech., dms | lb | 1.04 | 1.14 |
| Di-isobutyl ketone dms., c.l., dlvd | lb | .15¼ | — |
| l.c.l. dvld | lb. | .16¼ | — |
| tanks, dlvd | lb. | .13½ | — |
| Phthalate, dms., c.l., dlvd. E | lb. | .35 | — |
| l.c.l., dlvd. E | lb. | .36 | — |
| tanks, dlvd E | lb. | .33 | — |
| Di-isobutylene, dms., c.l., works | lb. | .10 | — |
| l.c.l., works | lb. | .11 | — |
| tanks, works | lb. | .08 | — |


Advance Bulletin

DEWEY AND ALMY Chemical Company

FILE NUMBER E-7

DATE July 1953

ANNOUNCING

DAREX EVERFLEX

DESCRIPTION: A unique copolymer of vinyl acetate, internally plasticized, thus overcoming those problems inherent in the compounding of polyvinyl acetate with chemical plasticizers. Everflex replaces polyvinyl acetate in regular formulations for coating and adhesives, but requires no plasticizer addition. Therefore, there is no plasticizer to be lost, to migrate, or to be leached out. Everflex is a vinyl acetate copolymer possessing permanent plasticity.

USES: For coatings and adhesives where conventional polyvinyl acetate emulsions are now used.

PLANT LOCATION: Cambridge, Massachusetts

WRITE FOR BULLETIN E-7 AND PRICE SHEET

ORGANIC CHEMICALS DIVISION:
High styrene copolymers
Polyvinyl acetate
Dibutyl maleate
Dibutyl phthalate
Di-iso-octyl phthalate
Dioctyl phthalate
Di-iso-butyl adipate
Dispersing agents.

DA

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## Di-iso-octyl Phthalate—Dyes, Coaltar, for Stains, Oil-Soluble

| | | | |
|---|---|---|---|
| Di-iso-octyl phthalate, dms., c.l., dlvd. | lb. | .36¾ | — |
| l.c.l., same basis | lb. | .37¾ | — |
| tanks, same basis | lb. | .35 | — |
| Di-isopropylamine, dms., c.l., dlvd. E. of Rockies | lb. | .49¾ | — |
| l.c.l. same basis | lb. | .50¾ | — |
| tanks, same basis | lb. | .48 | — |
| Dillseed, dewhiskered, bgs | lb. | .14 | .14½ |
| natural, bgs | lb. | .13 | .13½ |
| Dimethyl anthranilate, cns | lb. | 5.25 | 5.75 |
| Chloroacetal dms., c.l., works | lb. | .53 | — |
| l.c.l. works | lb. | .58 | — |
| tanks works | lb. | .51 | — |
| Hydroquinone, dms | lb. | 1.70 | 2.75 |
| Phthalate, dms., c.l., dlvd | lb. | .29¼ | .29½ |
| l.c.l., dlvd. | lb. | .30¼ | .30½ |
| tanks, dlvd | lb. | .27½ | — |
| Sebacate, dms., c.l., works | lb. | 1.31¾ | — |
| | lb. | 1.31¾ | — |
| l.c.l., works | lb. | 1.32¾ | — |
| tanks, works | lb. | 1.30 | — |
| Sulphate, 55 gal., ret. dms., c.l., works | lb. | .15 | — |
| l.c.l. works | lb. | .16 | — |
| 10 gal. ret dms., l.c.l., works. | lb. | .16½ | — |
| Dimethylamine, 25-40%, dms., c.l., frt. equald | lb. | .37 | .38 |
| l.c.l., frt. equald | lb. | .37½ | .38½ |
| tanks, frt. equald | lb. | .33 | — |
| Dimethylanilin, dms., c.l., frt. alld. | lb. | .29½ | — |
| l.c.l., frt. alld. | lb. | .30½ | — |
| tanks, frt. alld. | lb. | .28½ | — |
| Dimethylethanolamine, anhydrous, dms., c.l., dlvd | lb | 1.43 | — |
| l.c.l. dlvd | lb | 1.45 | — |
| tanks, dlvd. | lb. | 1.40 | — |
| Dimethylethanolamine, 70%, dms., c.l., dlvd., basis 100% | lb. | .54 | — |
| l.c.l., dlvd. | lb. | .55 | — |
| tanks, dlvd. | lb. | .52¼ | — |
| Dimethylformamide, dms., works | lb. | .34 | — |
| tanks, works | lb. | .33 | — |
| Dinitroanilin, dms., frt. equald | lb. | .57 | — |
| Dinitrobenzene, crude, dms | lb. | .20 | — |
| purified, dms. | lb. | .22 | — |
| Dinitrochlorobenzene, dms., c.l., frt. alld. E | lb. | .15¼ | — |
| l.c.l., frt. alld. E | lb. | .15¾ | — |
| tanks, frt. alld. E | lb. | .15 | — |
| Dinitrophenol, bbls. | lb. | .37 | — |
| Dinitrotoluene, oily, dms. | lb. | .10 | — |
| refined, dms. | lb. | .21 | — |
| Dioctyl adipate, dms., c.l., works | lb. | .46¾ | .47 |
| l.c.l., works | lb. | .47¾ | .48 |
| tanks, works | lb. | .45 | — |
| Phthalate, dms., c.l., frt. alld. | lb. | .36¾ | — |
| l.c.l., frt. alld. | lb. | .37¾ | — |
| tanks, frt. alld. | lb. | .35 | — |
| Diorthotolylguanidin, dms., ton lots, dlvd. | lb. | .57 | — |
| smaller lots, dlvd | lb. | .58 | — |
| Dioxane, dms., c.l., works | lb. | .28¾ | — |
| l.c.l., same basis | lb. | .29¼ | — |
| tanks, same basis | lb. | .27 | — |
| Dip oil (see Far acid oil). | | | |
| Dipentaerythritol, bgs., c.l., works, | lb. | .34 | — |
| l.c.l., works | lb. | .37 | — |
| Dipentene, dest.-dist., dms., extra, c.l., works | gal. | .49 | — |
| l.c.l., works | gal. | .50 | — |
| ex-whse. | gal. | .68 | — |
| steam-dist., dms., c.l., works, South | gal. | .63 | .72 |
| dlvd., N. Y. | gal. | .82 | .86 |
| tanks, works, South | gal. | .50 | .60 |
| Diphenyl, bbls., c.l., works | lb. | .13 | — |
| l.c.l., works | lb. | .16 | — |
| Diphenyl in bags ¼c. lower. | | | |
| Oxide, perfume grade, cns | lb. | .54 | .61 |
| Phthalate, dms., c.l., works | lb. | .51¾ | — |
| l.c.l., same basis | lb. | .53¾ | — |
| Diphenylamine, refined, gran., bbls., c.l., works | lb. | .28 | — |
| l.c.l., works | lb. | .30 | — |
| tanks, works | lb. | .25 | — |
| tech, tanks, works | lb. | .24 | — |
| Diphenylguanidin, dm.., ton lots | lb. | .48 | — |
| smaller lots | lb. | .49 | .50 |
| Diphenylhydantoin-sodium, USP, dms. | lb. | 5.30 | 5.60 |
| Dipropyleneglycol, dms., c.l., frt. alld | lb. | .16¾ | .17 |
| l.c.l., same basis | lb. | .17¾ | .18 |
| tanks, same basis | lb. | .15 | — |
| Methylether, dms., c.l., dlvd. E | lb. | .20¾ | — |
| l.c.l., same basis | lb. | .21¾ | — |
| tanks, same basis | lb. | .19¼ | — |
| Di-secondary-amylphenol, dms., c.l., works | lb. | .30¼ | — |
| l.c.l., works | lb. | .33¼ | — |
| tanks, works | lb. | .28¼ | — |
| Di-tertiary-amylphenol, dms., c.l., works | lb. | .30¼ | — |
| l.c.l., works | lb. | .33¼ | — |
| tanks, works | lb. | .28¼ | — |
| Di-tertiary butylmetacresol, dms., c.l., works | lb. | .31 | — |
| l.c.l., works | lb. | .33 | — |
| tanks, works | lb. | .30 | — |
| Di-tertiary butylparacresol, dms., c.l., works | lb. | .91 | — |
| l.c.l., works | lb. | .93 | — |
| Divi-divi, 45% tannin bgs., bls., c.l., U.S. ports, exdock | ton. | 70.00 | 72.00 |
| Divinylbenzene, 20-25%, dms., c.l., works | lb. | .20 | — |
| l.c.l., works | lb. | .21 | — |
| tanks, works | lb. | .19 | — |
| 40-50%, dms., c.l., works, basis 100% | lb. | 1.00 | — |
| l.c.l., works, 100% basis | lb. | 1.15 | — |
| Dodecylbenzene, dms., c.l., frt. equald | lb. | .14½ | — |
| l.c.l., same basis | lb. | .15½ | — |
| tanks, same basis | lb. | .12½ | — |
| Dogwood bark, Jamaica, bls | lb. | .11 | .13 |

Dyes, coaltar, certified colors for food drugs and cosmetics, 5-lb. and 1-lb. lots dlvd.:—

| | | | |
|---|---|---|---|
| Blue, FD&C, No. 1, cns | lb. | 17.00 | 17.60 |
| No. 2, cns | lb. | 17.00 | 17.60 |
| Green FD&C, No. 1, cns | lb. | 17.00 | 17.60 |
| No. 2, cns | lb. | 22.20 | 22.85 |
| No. 3, cns | lb. | 35.25 | 35.90 |
| Orange, FD&C, No. 1, cns | lb. | 3.65 | 3.75 |
| No. 2, cns | lb. | 4.65 | 4.75 |
| Red, FD&C, No. 2, cns | lb. | 7.55 | 7.85 |
| No. 2, cns | lb. | 4.00 | 4.10 |
| No. 3, cns | lb. | 22.20 | 22.85 |
| No. 4, cns | lb. | 7.20 | 7.50 |
| No. 32, cns | lb. | 5.30 | 5.40 |
| Violet, FD&C, No. 1, cns | lb. | 17.00 | 17.60 |
| Yellow FD&C, No. 1, cns | lb. | 10.50 | 11.05 |
| No. 3, cns | lb. | 3.30 | 3.40 |
| No. 4, cns | lb. | 3.30 | 3.40 |
| No. 5 cns | lb. | 4.00 | 4.10 |
| No. 6, cns | lb | 4.00 | 4.10 |

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd.:—

| | | | |
|---|---|---|---|
| Black, D&C, No. 1, cns | lb. | 10.95 | — |
| Brown, D&C, No. 1, cns | lb. | 16.10 | — |
| Green, D&C, No. 5, cns | lb. | 16.10 | — |
| No. 6, cns | lb. | 16.10 | — |
| No. 7 cns | lb. | 14.80 | — |
| Orange, D&C, No. 3, cns | lb. | 10.95 | — |
| No. 4, cns | lb. | 20.05 | — |
| No. 5, cns | lb. | 5.70 | — |
| No. 10, cns | lb. | 20.70 | — |
| Red, D&C, No. 8, cns | lb. | 2.85 | — |
| No. 9, cns | lb. | 2.85 | — |
| No. 10, cns | lb. | 2.30 | — |
| No. 11, cns | lb. | 1.85 | — |
| No. 12, cns | lb. | 2.65 | — |
| No. 17, cns | lb. | 10.95 | — |
| No. 18 ens | lb. | 24.90 | — |
| No. 19 cns | lb. | 15.45 | — |
| No 21, cns | lb | 3.60 | — |
| No. 22, cns | lb. | 10.95 | — |
| No 28, cns | lb. | 24.65 | — |
| No. 33 cns | lb. | 17.45 | — |
| Violet, D&C, No. 2, cns | lb. | 16.10 | — |
| Yellow D&C, No. 7, cns | lb. | 10.95 | — |
| No. 10, cns | lb | 13.50 | — |
| No. 11, cns | lb. | 13.50 | — |

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots dlvd:—

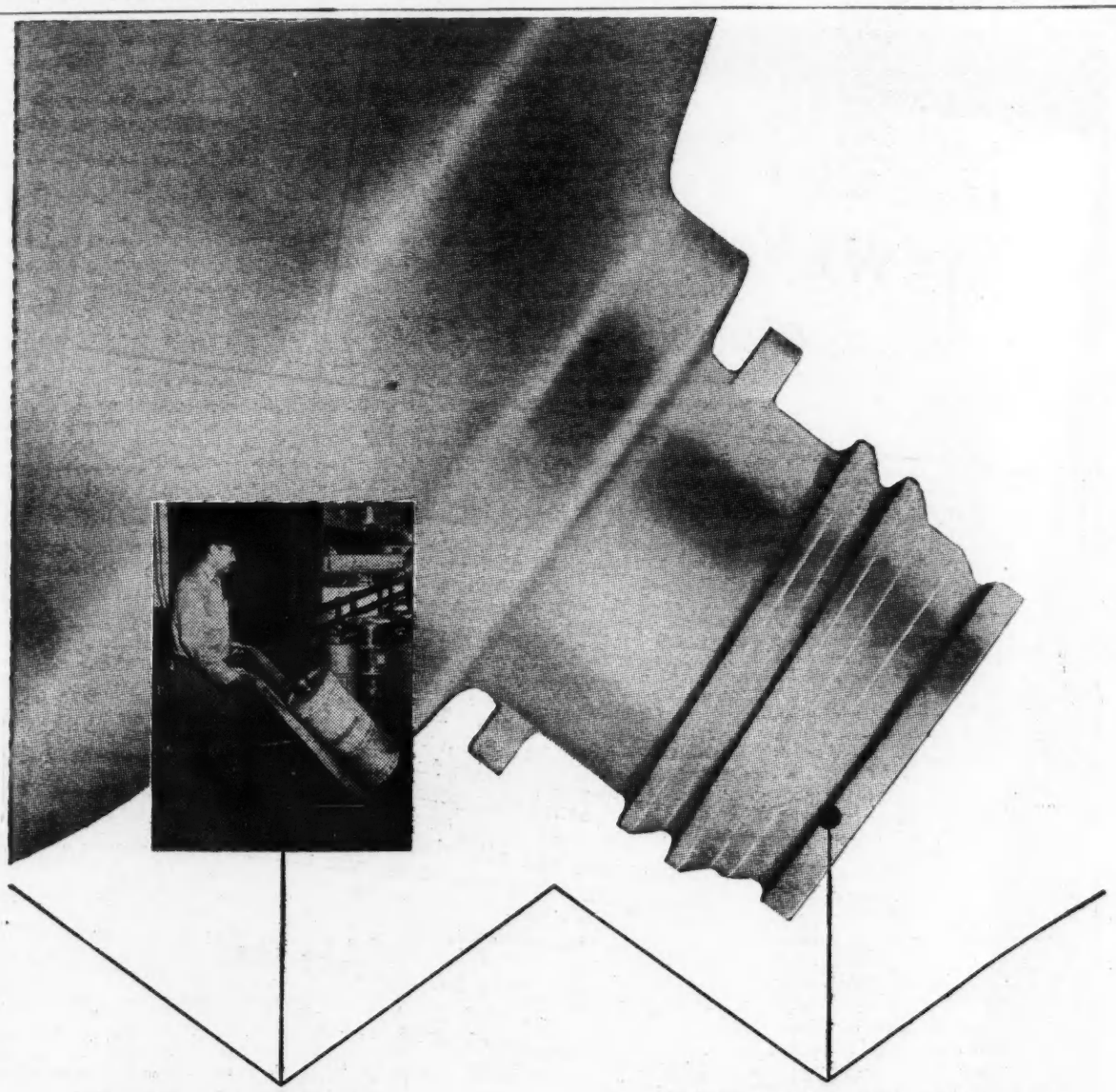
| | | | |
|---|---|---|---|
| Blue, Ext., D&C, No. 1, cns | lb. | 16.10 | — |
| Green Ext., D&C, No. 1, cns | lb. | 16.10 | — |
| Red Ext., D&C, No. 1, cns | lb. | 13.50 | — |
| Yellow Ext., D&C, No. 1, cns | lb. | 10.95 | — |

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd., No.

| | | | |
|---|---|---|---|
| 20 Chrysoidine Y | lb. | .74 | — |
| 27 Fast light orange 2G | lb. | .90 | — |
| 31 Phloxine 2G | lb. | .74 | — |
| 36 Yellow 2G | lb. | .83 | — |
| 40 Orange R extra, conc | lb. | 1.06 | — |
| 57 Fuchsine 6B | lb. | 1.08 | — |
| 79 Scarlet 2R | lb. | .91 | — |
| 151 Orange AD | lb. | .55 | — |
| 161 Orange RR | lb. | .66 | — |
| 176 Fast red A | lb. | .99 | — |
| 179 Rubine XX, conc | lb. | 1.14 | — |
| 180 Blue F4B | lb. | .92 | — |
| 185 Brilliant scarlet 3RN, conc | lb. | .93 | — |
| 202 Chrome blue black, conc | lb. | .75 | — |
| 203 Chrome black T | lb. | .78 | — |
| 208 Fast blue SR | lb. | .91 | — |
| 216 Chrome red B | lb. | .84 | — |
| 234 Brown Y | lb. | .96 | — |
| 246 Blue black, extra, conc | lb. | .95 | — |
| 275 Milling red 3R, conc | lb. | 2.03 | — |
| 289 Navy blue 3R, conc | lb. | 1.19 | — |
| 299 Black F, conc | lb. | 1.54 | — |
| 304 Neutral black 2B, conc., 200% | lb. | 2.01 | — |
| 326 Fast scarlet 4BNC | lb. | 1.64 | — |
| 332 Bismarck, brown, RX, conc. | lb. | .95 | — |
| 365 Brilliant yellow, conc | lb. | 2.57 | — |
| 382 Scarlet B | lb. | 1.82 | — |
| 401 Diazo black, BHD | lb. | .69 | — |
| 406 Blue 2B, extra conc | lb. | 1.07 | — |
| 419 Red FC conc | lb. | 1.12 | — |
| 420 Brown M | lb. | .98 | — |
| 448 Red 4BX, conc | lb. | 1.30 | — |
| 518 Diamine sky blue FF, extra, conc. | lb. | 1.50 | — |
| 561 Brown B | lb. | 2.03 | — |
| 581 Direct black EB | lb. | .94 | — |
| 593 Green BY, conc | lb. | .72 | — |
| 596 Yellow Brown K extra | lb. | .91 | — |
| 620 Yellow 2G | lb. | 1.01 | — |
| 639 Fast yellow 2G | lb. | 1.79 | — |
| 640 Yellow XX | lb. | 1.61 | — |
| 655 Yellow OX | lb. | 2.04 | — |
| 657 Green V | lb. | 2.10 | — |
| 662 Brilliant green G | lb. | 2.79 | — |
| 667 Brilliant milling green 6B, conc. | lb. | 3.68 | — |
| 671 Blue, EG | lb. | 1.76 | — |
| 681 Crystal violet powder | lb. | 2.15 | — |
| 698 Violet 4BXN | lb. | 1.74 | — |
| 730 Brilliant blue, BBG | lb. | 1.85 | — |
| 729 Blue, B, conc | lb. | 2.79 | — |
| 749 Red BX | lb. | 4.33 | — |
| 814 Yellow, NN, Conc | lb. | 3.11 | — |
| 841 Safranine GF, extra, conc., | lb. | 3.19 | — |
| 865 Nigrosine, WSJ | lb. | .75 | — |
| 922 Blue GXX | lb. | 1.71 | — |
| 973 Black GXCF conc | lb. | .32 | — |
| 1034 Alizarine red SC | lb. | 2.59 | — |
| 1054 Alizarine blue SAPX | lb. | 2.91 | — |
| 1078 Alizarine green CG, extra. | lb. | 2.72 | — |
| 1083 Alizarine blue, black, B | lb. | 2.33 | — |
| 1096 Golden orange, GFD, single paste | lb. | 1.99 | — |
| 1099 Dark blue BO, single paste. | lb. | 1.75 | — |
| 1101 Jade green N, double paste. | lb. | 1.98 | — |
| 1106 Blue RS, double paste | lb. | 2.96 | — |
| 1113 Blue BLFD double paste | lb. | 2.25 | — |
| 1150 Olive R, single paste | lb. | 1.10 | — |
| 1151 Brown R, single paste | lb. | 1.76 | — |
| 1171 Indigo, synthetic, 20% paste | lb. | .28 | — |
| 1217 Orange RD single paste | lb. | 1.65 | — |
| p-4 Brown, FG | lb. | 2.30 | — |
| p-24 Gray L | lb. | 1.60 | — |
| p-14 Brown, EB | lb. | 1.51 | — |
| p-80 Diazo brilliant scarlet ROAD | lb. | 2.79 | — |
| p-202 Diazo black VJ, conc | lb. | 1.74 | — |
| p-244 Brilliant scarlet BN | lb. | 1.31 | — |
| p-313 Naphthol SWF | lb. | 2.42 | — |

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.

| | | | |
|---|---|---|---|
| Black blue No. 550 | lb. | .81 | — |
| Jet No. 531 | lb. | .89 | — |
| Brown R, conc. | lb. | 1.72 | — |
| Orange R, brilliant | lb. | .90 | — |
| Red 4 B, conc. | lb. | 1.37 | — |
| Yellow G | lb. | 1.18 | — |
| FN, conc. | lb. | 1.22 | — |

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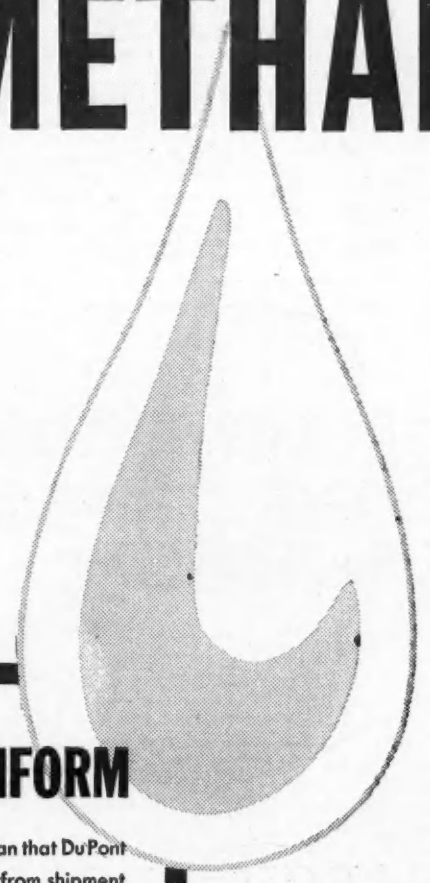
Acetone Content.....0.003% Maximum
Acidity or Alkalinity..0.003% Maximum
Color, A.P.H.A .....5 Maximum
Odor.....free from foreign odor

*ASTM Method D-268



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**A product of Du Pont pioneering and research.** Du Pont has pioneered and led in the production of synthetic methanol for the past 25 years—consistently improving the quality of this highly versatile, basic chemical. When you specify Du Pont Methanol, you are specifying the *standard of the industry*—available nationally through agents, shipped from strategically located stock points in tank cars; tank transports and tank wagons from some locations; and 55-gallon non-returnable steel drums. E. I. du Pont de Nemours & Co. (Inc.), Polychemicals Dept., Wilmington 98, Delaware.

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Polychemicals
DEPARTMENT
CHEMICALS • PLASTICS

## Dyes, Coaltar, for Stains, Spirit-Soluble—Fringetree Bark

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms, sellers works:—

| | | | |
|---|---|---|---|
| Auramine O | lb. | 1.85 | — |
| Black, nasic blue | lb | 1.21 | — |
| Jet | lb | 1.21 | — |
| Blue, methylene, 2 B, conc | lb. | 1.71 | — |
| Brown Bismarck R, conc | lb. | .86 | — |
| Chrysodine, R, extra | lb. | .60 | — |
| Y extra | lb. | .64 | — |
| Fuchsine conc | lb | 3.08 | — |
| Green malachite, conc | lb | 2.10 | — |
| Rhodamine, B | lb | 4.33 | — |
| Safranine Y conc | lb | 2.90 | — |
| Violet methyl B | lb. | 1.10 | — |

Dyes, coaltar for stains, water-soluble, 100-lb dms, sellers' works:

| | | | |
|---|---|---|---|
| Azo rubine R extra conc | lb. | 1.04 | — |
| Black, acid blue B, extra | lb | .86 | — |
| Fast light, 3 G, extra | lb. | 2.04 | — |
| Methanil conc | lb. | .91 | — |
| Orange Acid, Y, conc | lb. | .47 | — |
| Scarlet croceine, MOO | lb | 1.45 | — |
| Yellow azo conc | lb | .90 | — |

Oil soluble, spirit soluble, water soluble dyes in kegs, 3c. higher; tins, 10c. higher.

## E

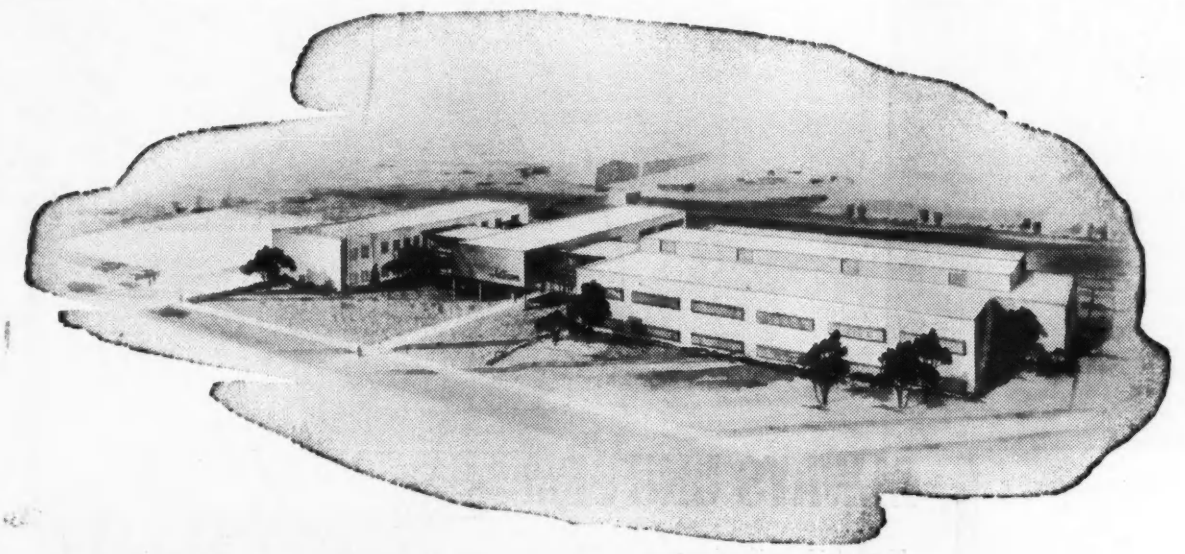
| | | | |
|---|---|---|---|
| Echinacea root, bls. | lb. | .90 | Nom. |
| Egg albumen (see Albumen). | | | |
| Yolk, dried, dom., bbls | lb. | 1.30 | - 1.33 |
| tanners, bbls. | lb. | .06 | - .06½ |
| Elder flowers, bright, bls | lb. | .30 | - .40 |
| Elm bark, grinding, ols | lb. | .28 | - .29 |
| powd., bbls., bxs | lb. | .46 | - .47 |
| select, bundles | lb. | .60 | - .61 |
| Emetine hydrochloride, USP, bots., | oz. | 35.00 | -42.85 |
| Ephedrine synthetic, USP, anhydrous bots., 100-oz. lots | oz. | .98 | - 1.00 |
| hydrous, bots., 100-oz. lots | oz. | .92 | - — |
| Hydrochloride, tin, 100-oz. lots | oz. | .75 | - — |
| Ephedrine sulphate cryst., tins, 100-oz. lots | oz. | .72 | - — |
| powd., tins, 100-oz. lots | oz. | .73 | - — |
| Epichlorohydrin, dms., c.l., works | lb. | .39 | - — |
| l.c.l., works | lb. | .40 | - — |
| tanks, works | lb. | .37 | - — |
| Epinephrine, synth USP, bots., 100 gram lots | gram. | .45 | - .55 |
| Epsom salt, tech., bgs., c.l., works, 100 lbs. | 100 lbs. | 2.15 | - — |
| l.c.l., works | 100 lbs. | 2.90 | - 3.15 |
| USP, cryst., bgs., c.l., works, 100 lbs. | 100 lbs. | 2.35 | - — |
| l.c.l., 5,000 lbs., 1 withdrawal | 100 lbs. | 3.10 | - — |
| smaller lots | 100 lbs. | 3.35 | - — |
| Ergosterol, unirradiated cryst | kilo | 150.00 | — |
| Ergot, NF, dms, tin-lined | lb. | 3.75 | - 4.25 |
| Eserine, bots | oz. | 45.00 | -50.00 |
| Salicylate USP bots | oz. | 32.50 | -34.00 |
| Sulphate, bots | oz. | 34.50 | -35.61 |
| Ether acetate (see Ethyl acetate) | | | |
| Butyl, dms., c.l., works | lb. | .31½ | — |
| l.c.l., works | lb. | .32 | - — |
| tanks, works | lb. | .30 | - — |
| Butyric (see Ethyl butyrate). | | | |
| Dichloroethyl, refd., dms., c.l., dlvd. E | lb. | .14 | - .14½ |
| l.c.l., same basis | lb. | .15 | - .16 |
| tanks, same basis | lb. | .13 | - — |
| technical, dms., c.l., works | lb. | .13 | - — |
| l.c.l., works | lb. | .13½ | - — |
| tanks, works | lb. | .12 | - — |
| Ether, ethyl, absolute, ACS, dms. | lb. | .37 | - — |
| anesthesia, USP, hospitals, 1-lb. cns. | lb. | .89 | - — |
| ½-lb. cns | lb. | .97 | - — |
| ¼ lb cns | lb. | 1.05 | - — |
| solvent, USP, dms., c.l., dlvd. | lb. | .15¾ | - — |
| l.c.l., same basis | lb. | .16¾ | - — |
| tanks, same basis | lb. | .13¾ | - — |
| synthetic, dms., c.l., dlvd. E | lb. | .12 | - — |
| l.c.l., same basis | lb. | .13 | - — |
| tanks, same basis | lb. | .10 | - — |
| Isopropyl, dms., c.l., dlvd. | lb. | .07 | - — |
| l.c.l., dlvd. | lb. | .08 | - — |
| tanks, dlvd. | lb. | .05 | - — |
| Nitrous, conc., bots., 100-lb. tots | lb. | 1.28 | - 1.35 |
| Vinyl, USP, anesthesia, bots. 50 cc hospitals | bot. | 1.12 | - — |
| 75 cc, hospitals | bot. | 1.56 | - — |
| Ethyl acetate, natural fermentation 85-88%, dms. c.l. frt. alld. | lb. | .13 | - — |
| l.c.l., frt. alld. | lb. | .14 | - — |
| tanks, frt. alld | lb. | .11 | - — |
| 95-96%, dms., c.l., frt. alld. | lb. | .13¼ | - — |
| l.c.l., frt. alld. | lb. | .14¼ | - — |
| tanks, frt alld | lb. | .11¼ | - — |
| 99%, dms., c.l., frt. alld. | lb. | .13½ | - — |
| l.c.l., frt. alld. | lb. | .14½ | - — |
| tanks, frt alld | lb. | .11½ | - — |
| synthetic, 85-98%, dms., c.l., dlvd. | lb. | .13 | - — |
| l.c.l., dlvd. | lb. | .14 | - — |
| tanks, dlvd | lb. | .11 | - — |
| 95-98%, dms., c.l., dlvd. | lb. | .13¼ | - — |
| l.c.l., dlvd. | lb. | .14¼ | - — |
| tanks, dlvd | lb. | .11¼ | - — |
| 99%, dms., c.l., dlvd. | lb. | .13½ | - — |
| l.c.l., dlvd. | lb. | .14½ | - — |
| tanks dlvd | lb. | .11½ | - — |
| Acetoacetate, dms., c.l., dlvd. | lb. | .55 | - — |
| l.c.l., dlvd | lb. | .56½ | - — |
| Ethyl acrylate, dms., c.l., and truck load, works | lb. | .45½ | - — |
| less than truckload, works | lb. | .46 | - — |
| tanks, works | lb. | .42¾ | - — |
| Aminobenzoate, USP, (see Benzocaine). | | | |
| Benzoate, cns., dms. | lb. | .74 | - .90 |
| Bromide, tech., 98%, dms., c.l. | lb. | .41 | - — |
| l.c.l. | lb. | .43 | - — |
| Butyrate works | lb. | .80 | - 1.02 |
| Carbamate (see Urethane). | | | |
| Chloride, tech., dms., c.l., works. | lb. | .18 | - .20 |
| cyls., c.l., same basis | lb. | .20 | - .22 |
| tanks, same basis | lb. | .10 | - — |
| USP bbls, cyls | lb | .22 | - .24 |
| Cinnamate, cns. | lb. | 2.71 | - 3.45 |
| Formate, dms. | lb. | .60 | - — |
| Gallate, dms., 100 to 2,000-lb. lots | lb | 3.90 | - 4.40 |
| Iodide, cbys., works | lb | 3.30 | - — |
| Methacrylate, dms., c.l., and solid, No. 1, bxs., l.c.l. | lb. | .45 | - — |
| less than truckload works | lb. | .50½ | - — |
| Nitrite (see Ether nitrous). | | | |
| Oenanthate dms | lb. | 1.00 | - 1.50 |
| Oleate, dms., l.c.l., works | | No prices. | |
| Oxalate (see Diethyl oxalate) | | | |
| Silicate, dist. (see Tetraethyl-orthosilicate). | | | |
| 40% available SiO, dms. works, | lb. | .60½ | - — |
| Ethylalphanaphthylamine (see Monoethylalphanaphthylamine) | | | |
| Ethylamine (see Mono, Di- or Tri-) | | | |
| Ethylanilin (see Monoethylanilin) | | | |
| Ethylbenzene, 99%, dms., c.l. | lb. | .14 | - .20¼ |
| l.c.l. | lb. | .14 | - .20¼ |
| tanks | lb. | .13 | - .18½ |
| Ethylbutylketone, dms., c.l., works. | lb. | .35½ | - — |
| l.c.l., works | lb. | .36 | - — |
| tanks | lb. | .34 | - — |
| Ethylcellulose, vis. 7 cps., bgs., 5,000 lb. lots or more, works | lb. | .73 | - — |
| smaller lots, works | lb. | .72 | - .80 |
| vis. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, works | lb. | .65 | - — |
| smaller lots | lb. | .67 | - .75 |
| Ethylene dichloride, dms. c.l., dlvd. | lb. | .10¼ | - — |
| l.c.l., same basis | lb. | .12¼ | - — |
| tanks, same basis | lb. | .09 | - — |
| Ethylene dichloride prices W. of Rockies, 1c per lb. higher. | | | |
| Oxide, cyls., c.l., works | lb. | .26 | - — |
| l.c.l. works | lb. | .27 | - — |
| tanks, dlvd. | lb. | .19 | - — |
| Trichloride (see Trichloroethane). | | | |
| Ethylenediamine, 85-88%, dms., c.l., dlvd. E., basis 100% | lb. | .46 | - — |
| l.c.l., dlvd. E., basis 100% | lb. | .47 | - — |
| tanks, dlvd. E., basis 100% | lb. | .44 | - — |
| Ethyleneglycol, dms., c.l., dlvd. E. | lb. | .18¾ | - — |
| l.c.l., same basis | lb. | .19¾ | - — |
| tanks, same basis | lb. | .17 | - — |
| Monobutylether, dms., c.l., dlvd. E | lb. | .20 | - — |
| l.c.l., dlvd. E | lb. | .21 | - — |
| tanks, dlvd. E | lb. | .18½ | - — |
| Monoethylether, dms., c.l., dlvd. E. | lb. | .20 | - — |
| l.c.l., dlvd. E | lb. | .21 | - — |
| tanks, dlvd. E | lb. | .18½ | - — |
| Monoethylether acetate, dms., c.l., dlvd. E | lb. | .18¼ | - — |
| l.c.l., dlvd. E | lb. | .19¼ | - — |
| tanks, dlvd. E | lb. | .16½ | - — |
| Monomethylether, dms., c.l., dlvd. E | lb. | .20 | - — |
| l.c.l., dlvd. E | lb. | .21 | - — |
| tanks, dlvd. E | lb. | .18½ | - — |
| Monomethylether acetate, dms., c.l., dlvd. E | lb. | .23¾ | - — |
| l.c.l., dlvd. E | lb. | .29¼ | - — |
| tanks, dlvd. E | lb. | .27 | - — |
| Monostearate, dms. | lb. | .30 | - .31 |
| Ethylethanolamines, mixed, dms., c.l., frt. alld., E. Miss | lb. | .42 | - — |
| l.c.l., same basis | lb. | .43 | - — |
| tanks, same basis | lb. | .40 | - — |
| Ethylmorphine hydrochloride, USP, bots | oz. | 12.85 | - — |
| Ethylorthotoluidin (see Monoethyl-orthotoluidin). | | | |
| Ethylvanillin, cns., 25-lb. lots | lb. | 6.75 | - 7.20 |
| smaller lots | lb. | 7.35 | - 7.40 |
| Eucalyptol, USP, cns., dms. | lb. | 1.45 | - 1.75 |
| Eugenol, pure, USP, bots. | lb. | 2.40 | - 2.85 |
| Euphorbia herb, bls. | lb. | .12 | - .14 |

## F

| | | | |
|---|---|---|---|
| Feldspar, enamel, 100 mesh, bgs., works | ton. | 20.00 | -22.00 |
| Glass, 20 mesh, bulk, tons, works | ton. | 11.75 | -12.50 |
| Pottery, bgs., ton lots, works | ton. | 20.00 | -22.00 |
| bulk, c.l., works | ton | 18.00 | -20.00 |
| Fennel seed, Czech, medium, bgs. | lb. | .14 | - .14½ |
| light, bgs. | lb. | .23 | - .23½ |
| French, bgs. | lb. | .34 | Nom. |
| Indian, bgs. | lb. | .16½ | - .17 |
| Fenugreek seed, Moroccan, bgs. | lb. | .07¼ | - — |
| Ferric-ammonium citrate (see Iron ammonium citrate) | | | |
| Ferric cacodylate (see Iron cacodylate) | | | |
| Glycerophosphate (see iron glycerophosphate) | | | |
| Hypophosphite (see iron hypophosphite) | | | |
| Sulphate (see iron sulphate ferric) | | | |
| Ferrous gluconate, NF, dms. | lb. | .83 | - .87 |
| Fir, balsam, Canada, cns. | gal. | 34.00 | -35.00 |
| Oregon, bbls. | gal. | 3.25 | Nom. |
| Fishliver oil (see Oil, fishliver) | | | |
| Fishmeal, menhaden, ground, domestic, 60% protein, bags, Balto area | ton. | 134.00 | -135.00 |
| Fishscrap, menhaden, dried, 60% protein, bags, Balto area | ton. | 129.00 | -130.00 |
| Fluorspar, dom., acid grade, bulk, c.l., mine | ton. | 60.00 | - — |
| ceramic grade, 93-96% $CaF_2$, grd., bulk, c.l., mine | ton. | 57.50 | - — |
| 85-92% $CaF_2$, grad., bulk, c.l., mine | ton. | 47.00 | - — |
| metallurgical grade, briquetts, pellets, 65% $CaF_2$, bulk, c.l., works | ton. | 34.00 | - — |
| lump, 59-65% effective $CaF_2$, bulk, c.l., mine | ton. | 40.00 | - — |
| washed gravel, 59-60% effective $CaF_2$, bulk, c.l., mine | ton. | 40.00 | - — |
| 60-65% effective $CaF_2$, bulk, c.l., mine | ton. | 40.00 | -41.00 |
| 65-70% effective $CaF_2$, bulk, c.l., mine | ton. | 42.00 | - — |
| 70% or better, effective $CaF_2$, bulk, c.l., mine | ton. | 43.00 | - — |
| Formaldehyde, NF (inhibited), dms., c.l., E., works | lb. | .066 | - — |
| l.c.l., E. works | lb. | .071 | - — |
| tanks, E. works | lb. | .0420 | - — |
| methanol-free (uninhibited), tanks, works | lb. | .0395 | - — |

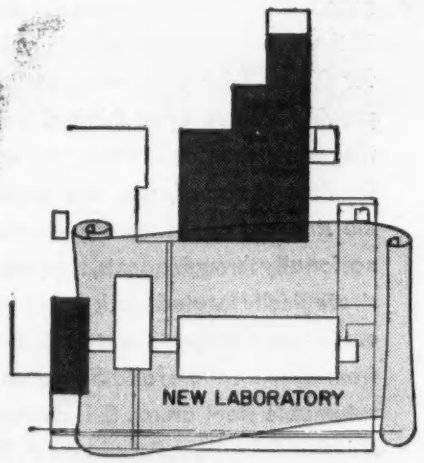
Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware. In states other than Eastern Seaboard as well as W. of Rockies, prices f.o.b. Texas plants, are .0270 for inhibited and .0243 for uninhibited.

| | | | |
|---|---|---|---|
| Fleaseed (see Psyllium seed). | | | |
| Fringetree bark, bls. | lb. | .60 | - .61 |

# RESEARCH PROGRESS

## ...by Jefferson for the industry

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Ethylene Oxide
Ethylene Glycol
Ethylene Dichloride
Diethylene Glycol
Monoethanolamine
Diethanolamine
Triethanolamine
Nonyl Phenol
Morpholine
Ethylene Carbonate
Propylene Carbonate
Diethylethanolamine
Hydroxyethyl Morpholine

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Fuller's earth, dom., powd., bgs., c.l., Fla., mines..ton 21.25 - —
Georgia mines, c.l.....ton 17.00 -18.00
Texas mines, c.l.....ton 16.00 - —
spent, f.o.b. shipt. pt., c.l..ton. 4.50 - 5.00
imported, bgs., c.l.....ton 42.00 - —
Furfural, tech., dms., c.l., works..lb. .13 - —
l.c.l., works .....lb. .15 - —
tanks, works .....lb. .115 - —
Fusel oil, refined, dms., c.l., dlvd..lb. .17½ - —
l.c.l., dlvd. .....lb. .18½ - —
tanks, dlvd.....lb. .15 - 15½
Fustic extract, cryst., No. 1, bbls., l.c.l..lb. .47½ - —
No. 2, bbls., l.c.l.....lb. .45½ - —
No. 3, bbls., l.c.l.....lb. .43½ - —
liquid, No 1, bbls., l.c.l.....lb. .22½ - —
No. 2, bbls., l.c.l.....lb. .21½ - —
No. 3, bbls., l.c.l.....lb. .19 - —
solid, No. 1, bxs., l.c.l.....lb. .45 - —

## G

G salt, 100% basis, bbls., frt alld lb. .73 - —
Gammapicoline, 98%, dms., c.l., works..lb. 3.00 - —
Gasoline, tanks, refy., ex tax, Arkansas, 80 octane..gal. .1175- —
N. Y. Harbor, 86 octane..gal .1415- .146
Group 3, 84 octane ....gal. .11375- .11625
Gulf coast, 83 octane.....gal. .1125- .1175
Penn., western U. S. motor, 86 octane..gal. .1415- .1425
natural, group 3, 26-70 octane gal. .06375- —
Gelatin, edible, pure (pork skin), 75 Bloom test, fib. dms., c.l..lb. .54 - —
150 Bloom test, fib. dms., c.l. lb. .62 - —
200 Bloom test, fib. dms., c.l. lb. .69 - —
225 Bloom test, fib. dms., c.l. lb. .72 - —
275 Bloom test, fib. dms., c.l. lb. .80 - —
Gelsemium root, bls.....lb. .26 - .27
Gentian root, bls .....lb. .17 - .20
grd., bbls., bxs.....lb. .22 - .23
powd., bbls., bxs.....lb. .23 - .24
Geraniol, extra, cns., dms.....lb. 1.40 - 2.10
standard, cns., dms.....lb. .60 - 1.50
Geranyl acetate, cns.....lb. 1.30 - 2.10
Ginger, oleoresin, NF, from African root, bots..lb. 4.00 - 7.75
from Jamaican root, bls. lb. 5.00 -12.75
Root, African, bls .....lb. .12½- .13
Cochin, unbleached, bgs.....lb. Nominal
Jamaica, No. 1, bgs.....lb. .19 - .20
No. 2, bgs. .....lb. .13½- .14
No. 3, bgs. .....lb. .12½- .13
Rhattoon, bgs.....lb. .12 - .12½
Nigerian, split, bgs.....lb. .10½- .11
Glauber's salt, anhyd. see Sodium sulphate›
Glue, bone, extracted, 66 jellygrams, bgs., c.l., dlvd..lb. .22½- —
86 jellygrams, same basis..lb. .23 - —
104 jellygrams, same basis..lb. .23½- —
131 jellygrams, same basis..lb. .24 - —
164 jellygrams, same basis..lb. .24½- —
191 jellygrams, same basis..lb. .25 - —
222 jellygrams, same basis..lb. .26 - —
packers' 40 jellygrams, bgs., c.l., dlvd..lb. .19½- —
65 jellygrams, same basis..lb. .20½- —
86 jellygrams, same basis..lb. .21 - —
115 jellygrams, same basis..lb. .21½- —
135 jellygrams, same basis..lb. .22½- —
164 jellygrams, same basis..lb. .23 - —
renderers' 110 jellygrams, bgs., c.l., dlvd..lb. .20 - —

Bone glue, l.c.l., prices 1c. higher.

hide, 70-94 jellygrams, bgs., c.l., dlvd..lb. .26 - —
95-121, bgs., c.l., dlvd .... lb. .27½- .28
122-149, bgs., c.l., dlvd.....lb. .29 - .29½
150-177, bgs., c.l., dlvd.....lb. .30 - .31
178-206, bgs., c.l., dlvd.....lb. .31 - .32
207-230, bgs., c.l., dlvd.....lb. .32 - .33
237-260, bgs., c.l., dlvd.....lb. .33 - .34
267-296, bgs., c.l., dlvd..... lb. .34 - .35
299-330, bgs., c.l., dlvd.....lb. .35 - .36
331-362, bgs., c.l. dlvd..... lb. .36 - .37
363-394, bgs., c.l., dlvd..... lb. .37 - .38
395-427, bgs., c.l., dlvd.....lb. .38 - .39
428-460, bgs., c.l., dlvd.....lb. .40 - .41
461-494, bgs., c.l., dlvd.....lb. .41 - .43
495-529, bgs., c.l., dlvd.....lb. .42 - .45

Hide glue l.c.l. prices 1c. higher.

Glycerin, crude, saponification, 68%, to refineries, tanks, dlvd lb. No prices.
soaplye, 80%, tanks, dlvd....lb. No prices.
refined BP, 98%, dms., c.l., dlvd. lb. .42⅜- —
l.c.l., dlvd.....lb. .42⅞- —
tanks, dlvd.....lb. .41⅞- —
dynamite, dms., c.l., dlvd....lb. .40¼- —
l.c.l., dlvd.....lb. .4 ⅜- —
tanks, dlvd.....lb. .39¾- —
high gravity, dms., c.l., dlvd..lb. .40½- —
l.c.l., dlvd.....lb. .41 - —
tanks, dlvd .....lb. .40 - —
USP, CP, 95%, dms., c.l., dlvd. lb. .41 - —
l.c.l., dlvd.....lb. .41½- —
tanks, dlvd.....lb. .40½- —
Glycerin, refined, yellow, distilled, dms., c.l., dlvd..lb. .04⅜- —
l.c.l., dlvd.....lb. .40⅞- —
tanks, dlvd.....lb. .39⅞- —
Synthetic, dms., c.l., dlvd....lb. .40½- —
l.c.l., dlvd.....lb. .41 - —
tanks, dlvd.....lb. .40 - —
Glycine (see Acid aminoacetic).
Glyoxal, 30% dms. c.l. works lb. .18½- —
l.c.l., works .....lb. .19 - —
tanks, works .....lb. .18 - —
Gold chloride, acid-brown, bots..oz. 22.50 -23.00
acid-yellow, bots.....oz. 20.00 -20.50
Golden seal root, NF, tested, bls. lb. 2.25 - 2.50
powd., bxs.....lb. 2.75 - 3.25
Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .06 - .09½
crystalline, 88-90%, powd., bgs., fib. dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. 21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, brown, tanks, dlvd.....lb. .02⅝- —
house, tanks, dlvd.....lb. .03⅜- —
white, choice, tanks, dlvd.....lb. .06⅛ Nom.
yellow, tanks, dlvd.....lb. .03⅜- —
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works lb. 5.10 - —
tungstated, PTMA, kgs., works lb. 6.30 - —
Green, chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .38 - —
16-30%, bbls., same basis. lb. .39 - —
31-45%, bbls., same basis. lb. .40 - —
45-49%, bbls., same basis. lb. .43 - —
50%, bbls., same basis .lb. .48 - —
reduced color, 25%, bbls., same gal. .19 - —

Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., dms., c.l., frt. alld....lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld... lb. .39¼- —
l.c.l., same basis.....lb. .39¾- —
Dyes (see Dyes, coal tar)
Malachite, straight, PTMA, bbls., works lb. 4.80 - —
Paris (see Paris green).
Phthalocyanin toner, bbls., works. lb. 4.40 - —
resinated, bbls ..... lb. 4.00 - —
water dispersable, bbls.....lb. 1.71 - —
Pigment B, kegs..... lb. 1.35 - —
Grindelia robusta herb, bls .... lb. .38 - .40
Guaiacol, cryst., tins .....lb. 1.90 - —
liquid, NF, bots., cbys.....lb. 2.15 - 2.20
Carbonate, dms..... lb. 3.15 - 3.20

Gum accroides (see Gum yacca).
Aloe (see A.)
Arabic, amber, sorts, bgs.....lb. .14 - .15½
powdered, USP, bbls.....lb. .20 - .23
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs.....lb. .38 - .42
Camphor (see C).
Cellulose, bgs., 23,000-lb. lots or more, works, frt. alld..lb. .60 - —
smaller lots same basis lb .62 - —
Copal, Congo, No. 1, bgs.....lb. .16 - .16
No. 2, bgs.....lb. .14 - .16
No. 3, bgs.....lb. .13 - .14
Manila, C, bgs.....lb. .32 - .34
CBB, bgs. .....lb. .22½- .24½
DBB, bgs.....lb. .17½- .19
DK, bgs.....lb. .14 - .16
dust, bgs. .....lb. .11 - .12½
soft, MA bgs.....lb. .14½- .16
ws, bgs. .....lb. .27 - .35
Philippine, pale, chips, bgs..lb. .17½- .19
nubs, bgs. .....lb. .29 - .32
seeds, bgs. .....lb. .13 - .15
sorts, bgs. .....lb. .15 - .16
Pontianak, chips, bgs.....lb. .20 - .22
nubs, bgs. .....lb. .30 - .32
Dammar, Batavia, A E, bags..lb. .26 - .27
dust, bgs.....lb. .16 - .18
E., bgs. .....lb. .18 - .20
East India, batu, bold, bgs....lb. .12 - .14
nubs and chips, bgs.....lb. .08 - .10
black, bold, bgs.....lb .14½- .16
unscraped, bgs. .....lb. .11 - .13
nubs and chips, bgs.....lb. .11 - .13
pale, chips, bgs.....lb. .13 - .14
nubs, bgs. .....lb. .10 - .20

Gum, dammar, Singapore, No. 1, bgs..lb. .37 - .39
No. 2, bgs. .....lb. .28 - .30
No. 3, bgs. .....lb. .16 - .17
dust, bgs. .....lb. .15½- .17
seeds, bgs. .....lb. .18 - .20
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. states, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W Va lb. .14 - .14½
wood-rosin type, dms., c.l., same basis lb. .14 - —
Guaiac (see Guaiac resin).
Karaya, NF, powd. No. 1, bbls lb. 30 .35
No. 2, bbls.....lb. .24 - .28
No 3, bbls.....lb. .19 - .21
Kauri bgs. .....lb 30 .50
Kino, cs .....lb 1.50 2.40
Locust bean powd., bgs.....lb 30 .32
Myrrh, cs. .....lb. .33 - .45
Opium (see O).
Olibanum siftings, cs.....lb. .14 - .22
tears cs .....lb 20 .50
Red (see Gum, yacca)
Rosin (see R).
Sandarac, cks. .....lb 2.50 3.50
Sterculia (see Gum karaya).
Tragacanth, No 1, cs .....lb 2.85 2.90
No 2, cs .....lb 2.45 2.50
No 3, cs .....lb 1.60 1.70
powdered, USP, bbls.....lb 1.25 1.35
Yacca, bgs.....lb. .08 - .09
Gypsum, anhydrous filler paper bgs. c.l. Medicine Lodge Kan ton 19.00 —
Plaster of paris, paper bgs., c.l.. Baltimore, frt. equald ton 18.30 - —
Harlem river, N Y., frt equald ton 17.30 - —
Medicine Lodge, Kan., frt. equald ton 16.00 - —




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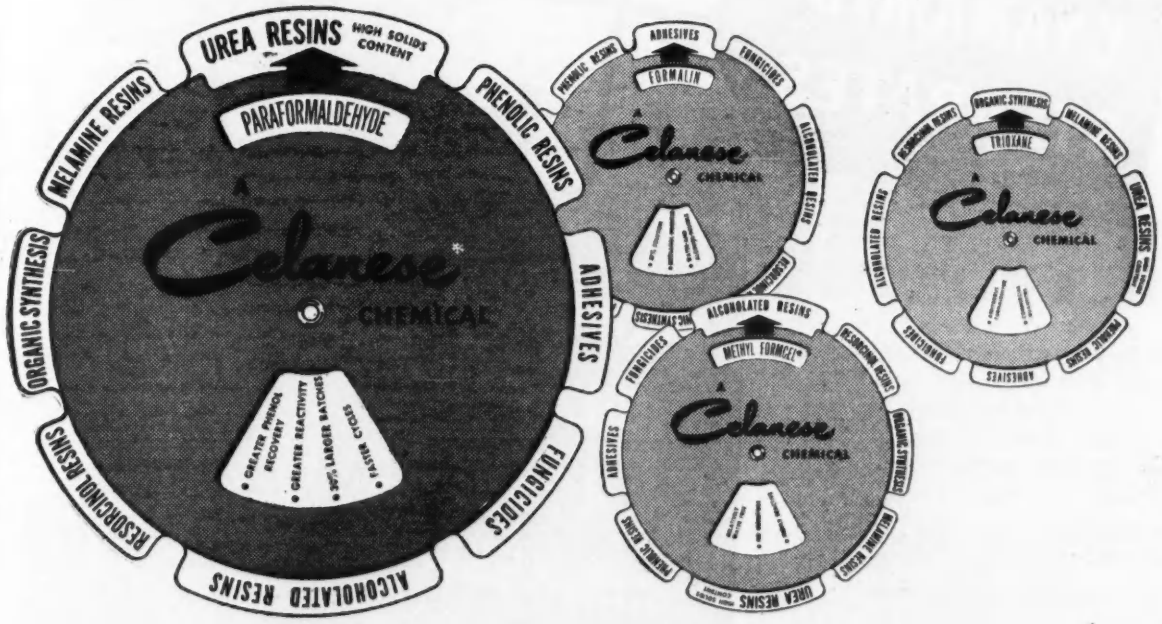


When formaldehyde is one of your raw materials, consult your Celanese representative in selecting your most efficient formaldehyde source.

**Suppose you're producing a low solids resin for plywood adhesives, 37% formalin will probably give you the best results. On the other hand, if you're making a high solids urea resin, he can show you where paraformaldehyde, with its low water content and high reactivity, is your most efficient and economical formaldehyde source. Many producers of alcoholated resins have discovered that a Formcel* solution of formaldehyde in a specified alcohol, gives them the required performance. Or, if you're looking for the most readily available source for dry formaldehyde gas, ask about Celanese Trioxane.**

Other Celanese Formaldehyde service includes: a newly expanded Technical Service and Application Laboratory to assist you in re-formulating your product with the right formaldehyde source ... complete cost analyses and end product evaluation ... a nationwide distribution system ... and up-to-date technical bulletins.

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Chemical Division, Dept. 656-I
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## Gypsum, Stucco—Larkspur Seed

Gypsum, stucco, paper bgs., Akron, N. Y., frt. equald ..ton. 8.00 - —
Blue Rapids, Kans., frt equald ton. 8.00 - —
Fort Dodge Iowa, frt equald. ton 8.00 - —
Gypsum, Ohio, frt. equald. ton. 8.00 - —
Grand Rapids, Mich., frt. equald ton. 8.00 - —
New Brighton N Y., frt. equald ton 8.00 - —
Plastereo, Ga., frt. equald. ton 8.00 - —
Roton, Texas, frt. equald ton. 8.00 - —
Southard, Okla., frt. equald. ton. 8.00 - —
Sweetwater, Texas, frt. equald ton 8.00 - —
Terra alba, dom., paper bgs., c.l., Baltimore ton.14.40 - —
Harlem River, N Y ton 14.40 - —
Imported, English, paper bgs., ex dock ton 48.00 - —
ex warehouse ..... ton.53 00 -56 00

## H

Hawthorn berries, bgs. ..... lb. .28 - .32
Heliotropine, cryst., cns ..... lb 3.10 - 3.65
Helonias root, bls ..... lb. 1.75 - 1.80
Hellebore root dom. green, bls .. lb. .55 - .65
Hematine extract, cryst. No. 1, bbls., l.c.l. lb. .47 - —
No 2, bbls. l.c.l. ..... lb. .43 - —
No 3, bbls., l.c.l. ..... lb. .41 - —
No 4, bbls., l.c.l. ..... lb. .39 - —
No 5, bbls., l.c.l. ..... lb. .37 - —
paste, No. 1, bbls., l.c.l. ..... lb. .20½- —
Henbane leaves, bls ..... lb. .35 - .40
Heptane, industrial, tanks, Bayonne, N. J. gal. .19 - —
Baytown, Tex. ..... gal. .14¾- —
Borger, Tex. ..... gal. .14¾- —
Hesperidin methylchalcone, bots., works lb.50.00 - —
Hexachlorophene, dms ..... lb. 2.60 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech. bgs., 1,000 lb lots or more, Perth Amboy or N Y C. lb. .232 - —
smaller lots, same basis ..... lb. .242 - —
fib dms. 1,000-lb lots or more, same basis lb. .239 - —
smaller lots, same basis ..... lb. .249 - —
USP, dms., 500 lb. lots or more, same basis lb. .40½- —
smaller lots, same basis lb. .41½- —
Hexamine (see Hexamethylene tetramine)
Hexane industrial, tanks, Bayonne, N. J. gal. .19 - —
Baytown, Tex. ..... gal. .15½- —
Borger, Tex. ..... gal. .15½- —
Hexanol, normal, dms., c.l., works. lb. .34¼- —
l.c.l., works ..... lb. .35 - —
tanks, works ..... lb. .33 - —
Hexyl cinnamic aldehyde, dms lb. 2.25 - 7.50
Salicylate dms lb 1 75 - —
Hexyleneglycol, dms., c.l., dlvd. lb. .16 - —
l.c.l., dlvd. ..... lb. .17 - —
tanks, dlvd ..... lb. .14 - —
Hexylmethacrylate, normal, dms., less than truckload, works. lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd. .lb.14.00 - —
smaller lots, dlvd. ..... lb.14.50 - —
Histamine diphosphate, USP., bots. kilo.450.00 - —
Histidine hydrochloride, laevo, NF, fib. dms., 50-kilo lots, works. kilo.80.00 -85.00
1-5 kilo lots, works .. kilo.90.00 -95.00
Homatropine hydrobromide, USP bots. .oz.13.75 - —
Hydrochloride, bots. ..... oz.20.00 -22.00
Methylbromide, USP, bots .... oz.10.50 -13.00
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 6.00 - —
Horehound herb, bls ..... lb. .14 - .15
Hydrastine, bots ..... oz.29.50 -31.00
Hydrochloride, NF, bots .... oz.29.50 -31.00
Sulphate, bots ..... oz.35.00 -37.00
Hydrastinine, 10-grain bots ... bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrazine, free base, ret. dms., Niagara Falls lb. 3.00 - 3.30
Hydrate, 100% ret. dms., Niagara Falls lb. 1.75 - 1.95
85%, ret. dms., same basis .lb. 1.35 - 1.55
Hydroturamide, dms., fib. ctns., works lb. .30 - .40
Hydrogen chloride, anhyd., 50-lb. cyl., c.l., works. .lb. .45 - —
l.c.l., works ..... lb. .55 - .60
Peroxide, USP bbls. dlvd .... lb. .03¾- .05
35%, cbys., dlvd ..... lb. .21 - —
dms., c.l., dlvd. ..... lb. .208 - —
l.c.l., dlvd. ..... lb. .213 - —
tanks, dlvd. ..... lb. .201 - —
Hydroquinone photo grade bbls. dms. lb. .98 - 1.00
tech., dms., c.l., frt. equald lb. .77 - —
l.c.l., frt. equald ..... lb. .78 - —
Hydroxycitronellal, ens ..... lb. 5.35 - 5.60
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots ..... oz.15.75 -16.00
Hydrobromide, bots. ..... oz.16 50 -18.00
Sulphate, bots ..... oz.12.00 -13.50
Hypernic extract, cryst., No. 2, bbls., l.c.l. lb. .52 - —
liquid, No. 1, bbls., l.c.l.... lb. .35 - —
No. 2, bbls., l.c.l. ..... lb. .27 - —

## I

Ichthammol, NF, dms. ..... lb. .60 - .75
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indol, CP, bots ..... lb 17 00 -21.00
Inositol, bots., dlvd ..... lb. 5.00 - —
dms., dlvd. ..... lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs ..... lb. 1.30 - —
resublimed, USP, bots., jars .. lb. 2.55 - —
Iodochlorohydroxyquin, USP, dms. lb. 5.90 - —
Iodoform, NF, dms., kgs ..... lb 4.90 - 5.00
Ionone, alpha, cns ..... lb. 4.00 - 8.25
Beta, cns ..... lb 4.30 -11.25
Methyl, std., dms., cns. ..... lb. 3.80 - 4.65
Ipecac root, bgs ..... lb. 6.00 - 6.50
powd., bbls., bxs ..... lb. 6.50 - 7.00
Irish moss, bleached, prime, bls lb. .30 - .35
Iron acetate liquor, 25°, bbls., c.l., works lb. .09 - —
l.c.l., works ..... lb. .09¾- —
solut., USP IX, cbys ..... lb. .16 - —
djns. ..... lb 17 —
Cacodylate, NF, bots ..... lb.13.00 -14.00
Iron chloride (ferric), anhydr., tech., dms., c.l., works 100 lbs. 6.75 - —
l.c.l., works ..... 100 lbs. 8 00 - —
indust., cryst., bbls., c.l., works 100 lbs. 4.75 - 5.25
l.c.l., works ..... 100 lbs. 5.25 - 6.25
USP, cryst., dms., works lb. .07½- .09
sol., 42° Be, cbys., c.l., works. 100 lbs. 7.25 - 8.25
basis 100%, tanks, frt. equald. 100 lbs. 3.20 - —
Citrate, gran., dms ..... lb. .86 - —
Gluconate, NF (see Ferrous gluconate, NF).
Glycerophosphiate, NF, powd. .lb. 4.75 - 4.85
Hypophosphite, NF, dms .... lb. 2.80 - —
Iodide bgs. ..... lb 3.66 3.73
Naphthenate liq., 6% Fe., dms., frt. alld lb. .25¾- —
Oxalate, gran., dms lb. .85 - .87
Phosphate, NF, soluble, gran., pearls, cs lb. .64 - .65
Pyrophosphate, NF VII, soluble, gran., pearls dms lb. .78 - .81
Resinate 6 75% Fe, dms., frt. alld. lb. .26¼- —
Stearate, dms., c.l. ..... lb. .37 - —
ton lots ..... lb. .38 - —
smaller lots ..... lb. .39 - —
Sulphate ferric, partially hydrated, bgs., c.l., works ton.31.75 -33.75
l.c.l., works ..... ton.34.75 -40.75
ferrous, tech. (see Copperas)
USP, cryst., bbls., dms lb. .09½- .10
Iron-ammonium citrate, brown, N.F., gran., dms lb. .59 - —
green, USP XII, gran., dms lb. .59 - —
Oxalate, fine gran., dms .. lb. .25½- .28½
Iron-potassium oxalate, fine gran., dms lb. .30½- .33½
Iron-sodium oxalate, fine gran., dms lb. .25½- .28½
Isoborneol, cns ..... lb. 1.25 - 1.70
Isobornyl acetate, cns ..... lb. .55 - .95
formate, dms. ..... lb. .80 - —
Propionate, dms ..... lb. 1.15 - 1.45
Isobutyl acetate, perfume grade, cns. lb. .75 - .97
solvent grade, dms., c.l., dlvd E. of Rockies .lb. .13¼- —
l.c.l., same basis ..... lb. .14¼- —
tanks, same basis .... lb. .11¼- —
Methacrylate, dms., works .... lb. .60 - —
Isobutyraldehyde, dms., dlvd ... lb. .50 - —
Isoeugenol, cns. ..... lb. 3.65 - 3.95
Isoniazid, bulk, powder, 25-kilo lots or more kilo.30.00 -32.00
smaller lots ..... kilo.30.00 -32.00
Isonicotinic acid hydrazide (see Isoniazid).
Isopentane, commercial grade, non-ret. dms., f.o.b. Tex. refy. gal. .50 - —
tech. ..... lb. .25 - —
pure ..... lb. .50 - —
Isophorone, dms., c.l., works ... lb. .24¼- —
l.c.l., works ..... lb. .24¾- —
tanks, works ..... lb. .22½- —
Isopropanol (see Alcohol, Isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .12 - —
l.c.l., same basis ..... lb. .13 - —
tanks, same basis ..... lb. .10 - —
Alcohol (see Alcohol, Isopropyl).
Benzene (see Cumene)
Ether (see Ether, Isopropyl).
Isopropylamine (see Mono-, Di-, or Tri-)
Isopropylphenol, dms., c.l., works lb. .46 - —
l.c.l., works ..... lb. .47 - —
tanks, works ..... lb. .45 - —
Isoquinolin, dms., works ..... lb. .65 - 1.25

## J

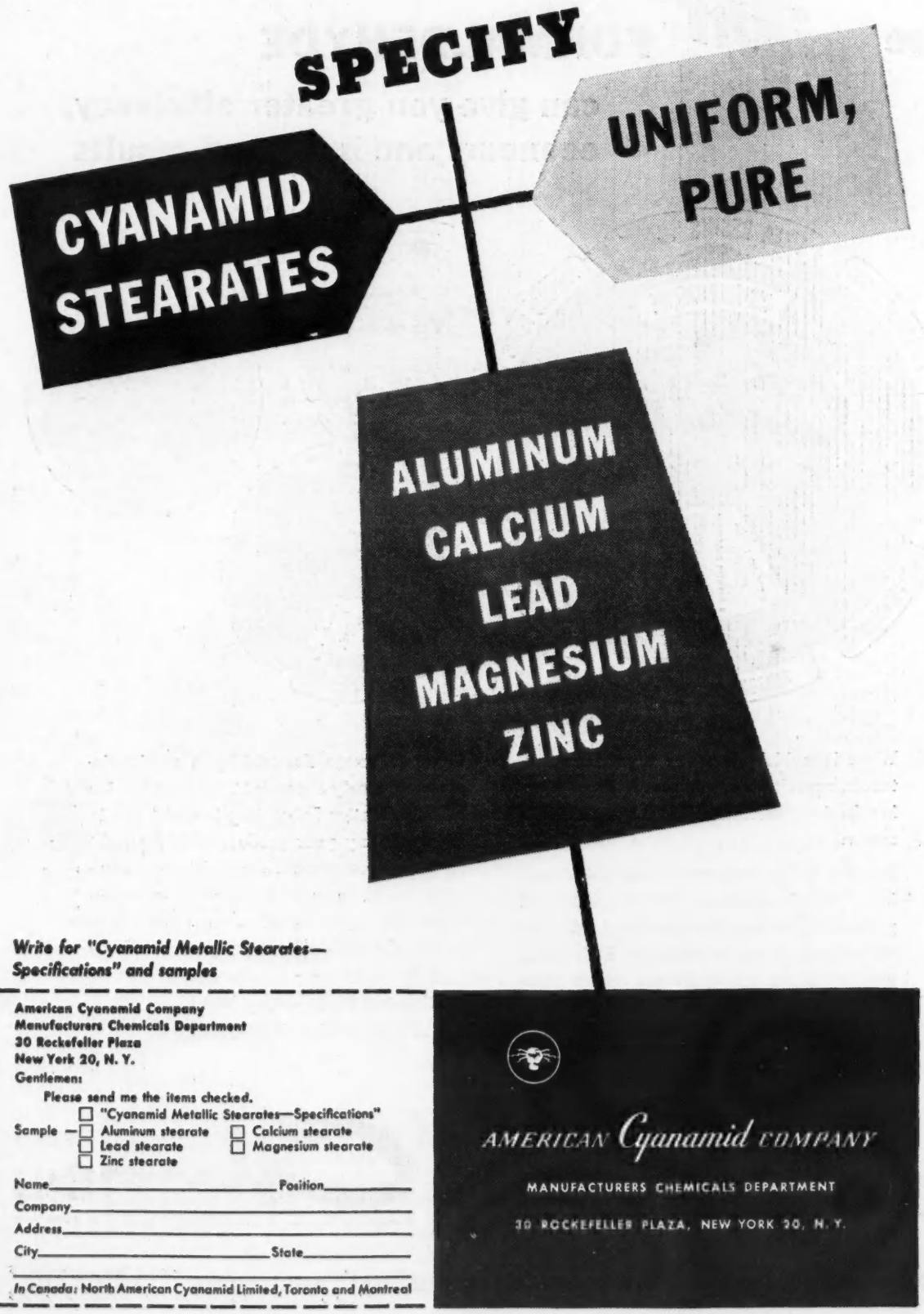
Jalap root, NF, bls ..... lb. .38 - .48
powd., bbls., bxs ..... lb. .45 - .55
Juniper berries, bgs ..... lb. .20 - .28
Tar, NF, dms. .. ..... lb. .42 - .60

## K

Kaolin (see also Clay, China).
NF, powd., fib. dms ..... lb. .08 - .16¼
colloidal, fib. dms ..... lb. .15 - .15½
Kerosene, tanks, refy., Ark., 42-44 specific gravity, w.w. gal. .09375- —
California, 40-43 s.g., w w .... gal. .138 - .148
Gulf ports, 41-43 s.g., w.w. gal. .09 - .0975
N. Y. Harbor, 43-44 s.g., w.w. gal. .1025- .11
Okla.-Tex., 41-43 s.g., w.w. gal. .08875- .10
Penn., Western, 45 s.g., w.w. gal. .1155- .12
Kola nuts, bgs ..... lb. .08 - .09

## L

Lady's slipper root, bls ..... lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works .lb. .36 - .42
USP, anhydrous, dms., works .lb. .35 - —
hydrous, dms., works ..... lb. .34 - —
Lard, cash, trcs., Chicago ..... lb. .16¾- —
Larkspur seed, bgs ..... lb. .20 - .25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| | | | |
|---|---|---|---|
| Lauryl chloride, dms., c.l., works, frt. equald. | lb. | .74 | — |
| l.c.l. | lb. | .75 | — |
| Methacrylate, normal, dms., less than truckload, works | lb. | 1.00 | — |
| Lavender flowers, medium, bls | lb. | .55 | .60 |
| ordinary, bls | lb. | .16 | .20 |
| select, bls | lb. | .90 | — |
| Lead acetate, white, crystals, bbls. | | | |
| gran. bbls. | lb. | .22 | — |
| gran. bbls | lb. | .23 | — |
| powd., bbls | lb. | .23 | — |
| NF cryst., gran., powd | lb. | .31 | .32 |
| Arsenate, acid powder, dealers, 3-lb. bgs., or larger, c.l., frt. alld. on 96 lbs. or more | lb. | .27½ | — |
| l.c.l., frt. alld | lb. | .28½ | — |
| 1-lb. bgs., c.l. | lb. | .41½ | — |
| l.c.l. | lb. | .42½ | — |
| Blue, basic sulphate, bbls., c.l., ship't point, frt. alld. | lb. | .14¾ | — |
| l.c.l., works | lb. | .15¾ | — |
| Carbonate (see Lead, white). | | | |
| Chloride, dms | lb. | .45 | — |
| Iodide, NF, ¼ lars | lb. | 3.82 | — |
| Linoleate, fused, 26.5%, dms. | lb. | .32½ | — |
| Metal, pigs, prime, N. Y. | lb. | .1350 | — |
| St. Louis | lb. | .1330 | — |
| Metallic paste, dms., 20,000-40,000 lb. lots, works | lb. | .31¾ | — |
| 10,000-20,000 lb. lots same basis | lb. | .32¾ | — |
| 2,000-10,000 lb. lots same basis | lb. | .33¼ | — |
| 200-2,000 lb. lots, same basis. | lb. | .33¾ | — |
| Prices ex whse, Jersey City, N. J., 4½c. per lb. higher. | | | |
| Monosilicate, bgs., c.l., works, frt. equald. | lb. | .1450 | — |
| l.c.l., same basis | lb. | .15 | — |
| Naphthenate, liquid, 16% Pb. dms., dlvd. | lb. | .17½ | — |
| 24% Pb. dms., dlvd | lb. | .23¾ | — |
| solid, 37% Pb. dms., dlvd | lb. | .31¼ | — |
| Nitrate, bbls | lb. | .22¼ | — |
| Oleate, fused, bbls | lb. | .29¾ | — |
| Orthosilicate gel, 50% PbO, dms., works. | lb. | .32¾ | — |
| 60% PbO dms. works | lb. | .31¾ | — |
| Peroxide, powd., tech., bbls. | lb. | .45 | .47 |
| Phthalate, dibasic, dms., works. | lb. | .41 | — |
| Red, 95% $Pb_3O_4$, or less, bbls., c.l., works, frt. equald. | lb. | .16 | — |
| l.c.l., same basis | lb. | .16½ | — |
| 97% $Pb_3O_4$, bbls., c.l., same basis. | lb. | .16¼ | — |
| l.c.l., same basis | lb. | .16¾ | — |
| 98% $Pb_3O_4$, bbls., c.l., same basis. | lb. | .16½ | — |
| l.c.l., same basis | lb. | .17 | — |
| Resinate, precip., dms., dlvd. | lb. | .28½ | — |
| Salicylate, normal, dms., works | lb. | .46 | — |
| Stearate, dibasic, ton lots | lb. | .54 | — |
| precip., bbls., c.l. | lb. | .39 | — |
| ton lots | lb. | .40 | — |
| smaller lots | lb. | .41 | — |
| Sulphate (see Lead blue; Lead white; basic sulphate). | | | |
| Tallate, liquid, 16% Pb, dms. | lb. | .16 | — |
| 24% Pb. dms. | lb. | .21½ | — |
| White, basic carbonate, bgs., c.l., ship't point, frt. alld. | lb. | .16 | — |
| l.c.l., same basis | lb. | .17 | — |
| basic silicate, bgs., c.l., ship't point, frt. alld. | lb. | .15¼ | .17¾ |
| l.c.l., same basis | lb. | .16¼ | .18¾ |
| basic sulphate, bgs., c.l., ship't point, frt. alld. | lb. | .14¾ | — |
| l.c.l., same basis | lb. | .15¾ | — |
| Lecithin, edible, tech., bleached, non-ret., dms., c.l., works. | lb. | .15½ | .16 |
| l.c.l., same basis | lb. | .16½ | .19 |
| unbleached, non-ret., dms., c.l., same basis. | lb. | .14½ | .15 |
| l.c.l., same basis | lb. | .16 | .18 |
| Leucine dextro-laevo, dms., works. | lb. | 12.25 | -15.00 |
| Licorice extract, mass, cns | lb. | .21¼ | .40 |
| powd., bbls | lb. | .31¾ | .50 |
| Root, whole, bbls | lb. | .08 | .12 |
| gran., bbls. | lb. | .12 | .18 |
| powd., bbls. | lb. | .15 | .20 |
| Lignin extract, tanning grade, bgs., c.l., works | lb. | .05¼ | .06½ |
| Lime, agricultural, bulk, works | ton. | 14.50 | — |
| Chemical (quicklime), lump, pebble, bulk, Adams, Mass. | ton. | 12.50 | — |
| Annville, Pa | ton. | 11.50 | — |
| Austin, Texas | ton. | 9.50 | — |
| Bellefonte, Pa. | ton. | 11.50 | — |
| Buffalo, N. Y. | ton. | 14.00 | — |
| Cedar Hollow, Pa. | ton. | 11.50 | — |
| Duluth, Minn. | ton. | 12.50 | — |
| El Paso, Texas | ton. | 14.00 | — |
| Farnams, Mass | ton. | 14.00 | — |
| Gibsonburg, Ohio | ton. | 12.50 | — |
| Hannibal, Mo | ton. | 10.00 | — |
| Keystone, Ala. | ton. | 10.25 | — |
| Kimballton, Va. | ton. | 10.25 | — |
| Knoxville, Tenn. | ton. | 10.50 | — |
| Lee, Mass | ton. | 12.50 | — |
| Lewisburg, Ohio | ton. | 10.00 | — |
| Limedale, Ark | ton. | 10.00 | — |
| Los Angeles, Cal. | ton. | 25.10 | -26.84 |
| Marble Cliff, Ohio | ton. | 10.00 | — |
| Martinsburg, W. Va. | ton. | 11.00 | — |
| Mosher, Mo. | ton. | 10.75 | — |
| Nelson, Ariz. | ton. | 14.50 | -23.65 |
| Quincy, Ill | ton. | 10.00 | -13.00 |
| Reddick, Fla | ton. | 13.50 | — |
| Scotrock, Ala. | ton. | 10.25 | — |
| Springfield, Mo. | ton. | 12.25 | — |
| Winooski, Vt | ton. | 15.50 | — |
| Woodville, Ohio | ton. | 11.50 | — |
| York, Pa. | ton. | 15.50 | — |
| Hydrated, paper bags, Adams, Mass | ton. | 15.50 | — |
| Annville, Pa | ton. | 14.50 | — |
| Austin, Texas | ton. | 13.00 | — |
| Bellefonte, Pa. | ton. | 14.50 | — |
| Buffalo, N. Y. | ton. | 16.00 | — |
| Cedar Hollow, Pa. | ton. | 14.50 | — |
| Chicago, Ill | ton. | 15.00 | — |
| Duluth, Minn. | ton. | 14.00 | — |
| El Paso, Texas | ton. | 17.50 | — |
| Engle, W. Va. | ton. | 14.50 | — |
| Farnams, Mass | ton. | 14.00 | — |
| Gibsonburg, Ohio | ton. | 16.50 | — |
| Hannibal, Mo. | ton. | 12.00 | — |
| Keystone, Ala. | ton. | 13.50 | — |
| Kimballton, Va. | ton. | 13.50 | — |
| Knoxville, Tenn. | ton. | 13.00 | — |
| Lee, Mass | ton. | 15.50 | — |
| Lewisburg, Ohio | ton. | 14.00 | — |
| Limedale, Ark | ton. | 12.00 | — |
| Marble Cliff, Ohio | ton. | 13.50 | — |
| McNeil, Tex | ton. | 13.00 | — |
| Meneminee, Mich. | ton. | 14.00 | — |
| Mosher, Mo. | ton. | 13.00 | — |
| North Tazewell, Va. | ton. | 12.75 | — |
| Quincy, Ill. | ton. | 10.00 | -12.00 |
| Reddick, Fla | ton. | 16.00 | — |
| Scotrock, Ala | ton. | 13.50 | — |
| Springfield, Mo. | ton. | 12.25 | — |
| Winooski, Vt | ton. | 15.50 | — |
| Woodville, Ohio | ton. | 14.50 | — |
| York, Pa | ton. | 14.50 | — |
| Spray, paper bgs., Adams, Mass. | ton. | 17.00 | — |
| Annville, Pa | ton. | 17.00 | — |
| Austin, Texas | ton. | 13.00 | — |
| Bellefonte, Pa. | ton. | 17.50 | — |
| Carey, Ohio | ton. | 11.00 | — |
| Duluth, Minn. | ton. | 15.00 | — |
| Lime, spray, paper bgs., Engle, W. Va. | ton. | 14.50 | — |
| Farnams, Mass | ton. | 14.00 | — |
| Gibsonburg, Ohio | ton. | 16.50 | — |
| Keystone, Ala. | ton. | 13.50 | — |
| Kimballton, Va. | ton. | 13.50 | — |
| Lee, Mass | ton. | 17.00 | — |
| Lewisburg, Ohio | ton. | 16.00 | — |
| Marble Cliff, Ohio | ton. | 16.00 | — |
| McNeil, Tex. | ton. | 16.00 | — |
| Meneminee, Mich. | ton. | 14.00 | — |
| Mosher, Mo. | ton. | 13.00 | — |
| North Tazewell, Va. | ton. | 12.75 | — |
| Reddick, Fla | ton. | 16.00 | — |
| Rockland, Me. | ton. | 10.00 | — |
| Springfield, Mo. | ton. | 12.25 | — |
| Scotrock, Ala. | ton. | 16.00 | — |
| Winooski, Vt | ton. | 17.00 | — |
| Woodville, Ohio | ton. | 16.50 | — |
| York, Pa | ton. | 15.50 | — |
| Lime salts (see Calcium) | | | |
| Lime-ammonia nitrogen, 20.5% N (see Ammonium nitrate with dolomite) | | | |
| Limestone, grd. bgs. works | ton. | 3.50 | 4.00 |
| Linalool, ex bois de rose oil, dms. | lb. | 5.95 | - 6.70 |
| ex lignaloe wood oil, dms. | lb. | 5.30 | - 7.10 |
| Linalyl acetate, ex bois de rose, 90-92%, dms. | lb. | 6.00 | - 6.25 |
| 96-98%, dms. | lb. | 6.75 | - 7.15 |
| ex petitgrain, bots. | lb. | 4.35 | - 5.05 |
| Lindane, 25% formulation, dealers, cns., works | lb. | 2.20 | — |
| dms., works | lb. | 2.10 | — |
| 99%, tech., dealers, dms., works. | lb. | 2.75 | - 3.35 |
| Linden flowers with leaves, bls | lb. | .34 | - .35 |
| without leaves, bls | lb. | .40 | - .41 |
| Linseed meal, expeller, 32-34% bulk, Midwest, mills | ton. | 64.00 | -65.00 |
| extracted, 36%, same basis | ton. | 60.00 | -60.50 |
| Litharge, com'l, powd., bbls., c.l., works, frt. equald. | lb. | .15½ | — |
| l.c.l., same basis | lb. | .16 | — |
| Lithium benzoate, dms. | lb. | 1.65 | - 1.67 |
| Bromide, NF, bbls., works, frt. equald. | lb. | 2.10 | - 2.75 |
| Carbonate, tech., dms. | lb. | .99 | - 1.10 |
| Chloride, cryst., dms. | lb. | 1.22 | - 1.26 |
| Citrate, NF, bbls., dms., kgs. | lb. | 1.60 | - 1.64 |
| Fluoride, bbls | lb. | 2.05 | — |
| Hydride powd. dms., works | lb. | 12.00 | -14.00 |
| Hydroxide, monohydrate, dms. | lb. | 1.10 | - 1.25 |
| Salicylate, dms | lb. | 1.60 | - 1.70 |
| Lithopone, ordinary, bgs., c.l., dlvd. | lb. | .07½ | — |
| l.c.l., dlvd. | lb. | .08¼ | .08½ |
| titanated (high-strength), bgs., c.l., dlvd. | lb. | .10 | — |
| l.c.l., dlvd | lb. | .11 | — |
| Lithopone prices, Pacific Coast, 1c per lb higher | | | |
| Lobeline sulphate, bots., works | oz. | 33.00 | -34.00 |
| Logwood extract, crystals, No. 1, bbls., l.c.l | lb. | .41 | — |
| No. 2, bbls., l.c.l | lb. | .39 | — |
| liquid, No. 1, bbls., l.c.l. | lb. | .20 | — |
| No 2, bbls., l.c.l. | lb. | .19 | — |
| No 3, bbls., l.c.l. | lb. | .18½ | — |
| solid, No. 1 | lb. | .35 | — |
| Lycopodium, cs. | lb. | 1.30 | - 1.50 |
| Lysine hydrochloride, dextro-laevo, bots. | kilo. | 145.00 | -149.00 |

## M

| | | | |
|---|---|---|---|
| Mace, Siauw, No. 1 bls. | lb. | .93 | — |
| West Indian, No. 1, bls. | lb. | 1.00 | — |
| broken, cs | lb. | .79 | - .73 |
| Magnesia, calcined, tech., etns. works | lb. | .32 | - .34½ |
| synth., rubber grade, etns., works | lb. | .31 | — |
| USP, light, etns | lb. | .34 | - .36 |
| heavy, bbls. | lb. | .36 | - .38 |
| Magnesite, chemical grade, calcined powd., bgs., c.l., works, frt. equald | ton. | 82.50 | — |
| dead-burnt, standard grain, bulk, c.l., Chewalah, Wash | ton. | 38.00 | — |
| Magnesium bromide, jars | lb. | .90 | 1.00 |
| Carbonate, tech., bgs., c.l., frt. equald | lb. | .09½ | — |
| l.c.l., frt alld | lb. | .10½ | — |
| bb's., c.l., frt. equald | lb. | .10¾ | — |
| l.c.l., frt alld | lb. | .11¾ | — |
| kgs c.l., frt. equald | lb. | .12 | — |
| l.c.l., frt alld | lb. | .13 | — |
| Carbonate, USP, bgs., c.l., frt. equald | lb. | .11¼ | — |
| l.c.l., frt alld | lb. | .12¼ | — |
| bbls., c.l., frt. equald | lb. | .11¾ | — |
| l.c.l., frt. alld | lb. | .12¾ | — |
| kgs., c.l., frt equald | lb. | .13 | — |
| l.c.l., frt alld | lb. | .14 | — |

Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila county, Pa Frt equald with N. Y. C. on all other destinations.

| | | | |
|---|---|---|---|
| Chloride, anhyd., lump 95-98%, drums, c.l., works, frt. equald | lb. | .12¾ | — |
| l.c.l., same basis | lb. | .14 | - .15 |
| powd., bbls., works | ton. | 50.00 | — |
| hydrous, flake, dms., l.c.l., works | ton. | 49.00 | -51.00 |
| Gluconate, dms., cns | lb. | 1.30 | - 1.37 |

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With the opening this month of the valves of the newly completed $20 million facilities at Sterlington, Louisiana, Commercial Solvents Corporation becomes one of the world's largest producers of methanol, for sale to meet the growing needs of expanding American Industry.

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AMMONIA • NITROPARAFFINS • SOLVENTS • PLASTICIZERS • INTERMEDIATES

## Magnesium Glycerophosphate—Mica, Wet-Ground, Wallpaper

Magnesium glycerophosphate, dms., works lb. 5.40 - 5.50
Hydroxide, NF, medicinals, bbls., dms. kgs lb. .26½ - .30
Hypophosphite dms lb 1.60 - —
Laurate, bbls lb. .46 - .47
Metal, 99.8% ingots, cs., works lb. .37 - —
sticks, cs., works, frt alld, on carlots lb. .45 - —
Oleate, fused, bbls lb. .31 - —
Oxide (see Magnesia, calcined).
Peroxide 15% dms works lb 1.00 - 1.05
Phosphate, tribasic, NF, bbls lb. .75 - —
Silicate (see Talc)
Silicofluoride, bbls., works lb. .09 - .10
Sulphate (see Epsom salt).
Stearate ctns, c.l. lb .38 - —
ton lots lb .39 - —
smaller lots lb. .40 - —
Trisilicate, USP, dms., 5,000-lb. lots lb. .38 - —
1,000-lb lots lb. .40 - —
100-lb lots lb. .45 - —
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher
Maleic anhydride dms., c.l. dlvd. E lb. .32 - —
l.c.l., dlvd. E lb. .33 - —
Prices on maleic anhydride W of Rockies, 1½c. higher
Mandrake root, bls. lb. .29 - .32
Manganese acetate, bbls, dlvd lb .32½ - —
Arsenate bgs lb .16 - —
Borate, tech., bbls lb. .24 - —
Carbonate bbls., works lb .21 - —
Chloride anhyd., dms., works lb. .20 - .22
Manganese, dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, paper bgs., gross for net, works ton.88.00 - —
paper-lined burlap bgs., works ton.91.50 - —
dms., works ton.94.00 - —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher
Gluconate, dms. lb 1.79 - 1.93
Glycerophosphate NF fib. dms. lb. 4.70 - 4.80
Hydrate bbls, dlvd lb. .33¼ - —
Hypophosphite NF dms lb 2.00 - —
Linoleate, liquid 4.35% Mn., dms. lb. .30½ - —
solid precip 6.2% Mn., bbls lb. .33½ - —
Metal, cs., dlvd, East lb. .30 - .32
Naphthenate, liquid 6% Mn., dms., frt. alld lb. .27 - —
Oleate, precip., bbls lb. .35½ - —
Resinate, fused, 3½% Mn., dms. lb. .21¾ - —
precip., dms lb. .24½ - —
Stearate ctns, c.l. lb. .33 - —
ton lots lb .39 - —
smaller lots lb. .40 - —
Sulphate, fertilizer grade 65% bgs., c.l., dlvd, S. E ton.80.50 - —
l.c.l., dlvd, S. E ton.87.50 - —
Tallate, 6% d.... lb. .24¼ - —
Mangrove bark, E. African, 38% tannin, c.l., ex dock ton.77.00 - 78.00
So. American 30% tannin, c.l., ex dock ton.57.50 - 59.00
Mannitol, com'l dms. works lb. .40 - .43
reagent, 50-lb dms. works lb .85 - —
Melamine, bgs. ton lots, works lb. .33 - —
500 to 2,000-lb lots, works lb .33¼ - —
smaller lots, works lb. .38½ - —
Menadione, USP, bots. gram .06 - .06½
Menthol, natural, USP, Brazilian, cs. lb. 5.60 - 5.65
Japanese, cs. lb. 7.40 - 7.50
synthetic, USP, racemic, cns lb. 4.95 - —
Menthyl salicylate, tins lb. 4.00 - 4.25
Mercaptobenzothiazole, bgs., no. dms., ton lots, works, frt. alld. lb. .38 - —
less ton lots, same basis lb. .40 - —
Mercaptobenzothiazyl disulphide, bgs., fib. dms., ton lots, works, frt. alld. lb. .48 - —
less ton lots, same basis lb. .50 - —
Mercury, ammoniated (see White precipitated).
Bichloride (see Corrosive sublimate).
Chloride (see Calomel).
Cyanide, NF VIII, powd. fib. dms. lb 5.29 - —
Iodide, red, NF, fib. dms lb 6.47 - —
yellow NF, fib. dms lb 6.72 - —
Metal (see Quicksilver)
Oxide, red, NF (see Red precipitate).
tech (see Red mercury oxide).
yellow, tech (see Yellow mercury oxide).
USP fib dms lb 4.64 - —
Mesityl oxide, dms., c.l., dlvd lb.13.50 - —
l.c.l., dlvd. lb.14.50 - —
tanks, dlvd lb.11.50 - —
Metaldehyde, dms., works lb .95 - 1.35
Meta-aminophenol, distilled, dms., ton lots lb 2.05 - —
less than ton lots lb. 2.30 - —
Metachloroanilin, dms., c.l., frt. equald lb. .75 - —
l.c.l., same basis lb. .80 - —
Metacresol, 98% dms., c.l., works lb. 73½ - —
l.c.l., works lb. 74½ - —
Metanitroanilin dms., frt. alld lb. 1.05 - —
Metanitroparatoluidin, bbls lb. 1.59 - —
Metaphenylenediamine ags, frt. alld. lb. .90 - —
Metatoluidine, bbls., c.l., works, frt. alld. lb. .79 - —
l.c.l., same basis lb. .90 - —
tankcars, same basis lb. .78 - —
Metatolylenediamine, crystals, fib. dms., frt. alld. lb. .84 - —
powder, fib. dms., same basis lb. 1.00 - —
Methanol, natural, denaturing grade, dms., c.l., frt. alld gal. .78 - —
l.c.l., frt. alld gal. .79 - —
tanks, frt. alld gal. .70 - —
Prices on natural methanol W. of Miss., 3c. higher.
synthetic, Zone 1, dms., dlvd gal. .45 - .45½
l.c.l., dlvd. gal. .52 - —
tanks, dlvd gal. .32 - .33½
Zone 2, dms., c.l., dlvd gal. .50½ - —
l.c.l., dlvd. within established whse delivery zone gal. .57 - —
tanks, dlvd. gal. .35½ - —
Synthetic methanol zones are: Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Methenamine (see Hexamethylenetetramine)
Methionine, dextro-inevo, fib. dms., frt alld 50-lb or more lb. 4.55 - —
feed grade, 98% fib., dms., same basis lb. 3.00 - —
97% fib dms, same basis lb. 2.97 - —
Methoxychlor 50% wettable powder, dealers, dms. cs., frt. alld lb. .61 - .64
Methyl abietate, non-ret, dms., c.l., dlvd., zone 1 lb. .19½ - —
l.c.l., same basis lb. .20 - —
hydrogenated, zone 1, non-ret., dms., c.l., dlvd lb. .20 - —
l.c.l., same basis lb. .20½ - —
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Penn
Acetone, natural, dms., c.l., E. of Miss., frt. alld. gal. .57 - —
l.c.l., same basis gal. .68 - —
tanks, same basis gal. .45 - —
Natural methyl acetone prices W of Miss. 3½c. per gal. higher.
synthetic, dms., c.l., dlvd E gal. .66½ - —
l.c.l., dlvd. E gal. .72½ - —
tanks, dlvd. E gal. .54½ - —
Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory is all States West of these four.
Acrylate, dms., c.l., and truckload works lb. .45½ - —
less than truckload, works lb. .46 - —
tanks, works lb. .42¾ - —
Alconol (see Methanol).
Anthranilate, cns. lb. 2.35 - 2.65
Benzoate, cns., dms lb. .53 - .65
Bromide, jobbers, cyls., various sizes, works lb. .47 - .61
Chloride, indust., cyl., works lb. .18 - —
tanks, multi-unit works lb. .14 - —
single-unit works lb. .11½ - —
refrigerator mfrs. cyls., dlvd lb. .40 - .42
other consumers or service men, cyls., dlvd lb. .57 - —
Cinnamate, cns lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works lb. .35½ - —
l.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Formate, redd., dms lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .08 - —
tanks works lb. .07 - —
Lactate dms., l.c.l., works lb. .35 - —
Methacrylate, dms., c.l., and truckload, frt. equald., with Belle, W. Va., and Arlington, N. J. lb. .36½ - —
smaller lots, same basis lb. .37 - —
tanks same basis lb. .35 - —
Parahydroxybenzoate, USP, bots. lb. 2.10 - 2.20
fib. dms. lb. 1.90 - 2.00
Roseanilin chloride, NF, fib dms. lb. 5.44 - —
Salicylate, USP, dms., 500 lbs. lb. .53 - —
cns., 50 lbs lb. .58 - —
Testosterone, USP, 100-gm. lots. gm. .79 - —
Methylamyl acetate, dms., c.l., dlvd. E lb. .14¾ - —
l.c.l., dlvd. E lb. .15½ - —
tanks, dlvd. E lb. .13 - —
Ketone, dms., works lb. 1.05 - —
Methylcellulose, special, vis., (1,500-4,000 cps.) 50-lb bgs., c.l., works lb. .78 - —
2,000-lb. lots and more, same basis lb. .80 - —
smaller lots, frt. alld. on 100 lbs. .85 - .97
standard vis. (35-400 cps.), 50-lb. bgs., c.l., alld lb. .66 - —
2,000-lb. lots and more, same basis lb. .68 - —
smaller lots, frt. alld. on 100 lbs. lb. .72 - .85
Methylene blue, kegs, 100-lb. lots, frt adjusted lb. 3.25 - 3.60
smaller lots, same basis lb. 3.40 - 3.60
Chloride, industrial, dms. c.l., dlvd E lb. .13½ - —
Methylethylketone, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd. lb. .14 - —
tanks, dlvd lb. .11 - —
Methylethylpyridin, dms. c.l., works. lb. .47½ - —
l.c.l works lb. .48 - —
tanks, works lb. .46 - —
Methylheptincarbonate, bots lb.30.00 - 42.00
Methylionone A, cns lb 6.55 - 8.80
D, cns lb 7.50 - 9.55
prime cns lb 4.55 - 6.40
Methylisobutyl carbinol (See Carbinol methylisobutyl)
Ketone, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb .13 - —
Methylnaphthyl, ketone, cans lb. 3.60 - 3.95
Methylparaben (see Methyl parahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone, dms., 250 lbs., dlvd lb. 1.70 - —
less than 250 lbs. dlvd lb. 2.00 - —
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l. works lb. .04¼ - —
roofing 20 to 80 mesh, works lb. .03 - .04
wet-ground, biotite, bgs., c.l., works, frt. alld. E lb. .06¼ - —
l.c.l., ex whse. or frt. alld. E lb. .07 - —
paint or lacq., bgs., c.l., works, frt. alld. E lb. .07¾ - —
l.c.l., ex whse. or frt. alld. E lb. .08½ - —
rubber, bgs., c.l., works, frt. alld E lb. .07½ - —
l.c.l., ex whse. or frt. alld. E lb. .08½ - —
wallpaper, bgs., c.l., works, frt. alld., E lb. .07¾ - —
l.c.l., ex whse. or frt. alld. E lb. .08¼ - —

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for nitrocellulose lacquers . . . for vinyl lacquers

For over-all performance and economy in lacquer formulation there is no substitute for methyl isobutyl ketone, because only MIBK has the solvent characteristics which permit formulating at top diluent content or top solids concentration.

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MIBK is one of Shell's *quality* solvents which include among others MEK, MIBC, and IPA. Your Shell Chemical representative will be happy to discuss with you in detail the advantages to be gained from using MIBK in your lacquer formulations. Just phone or write.

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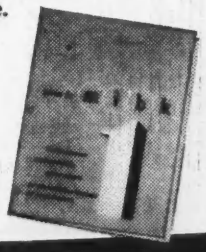

SHELL CHEMICAL CORPORATION
CHEMICAL PARTNER OF INDUSTRY AND AGRICULTURE
EASTERN DIVISION: 500 Fifth Avenue, New York 36
WESTERN DIVISION: 100 Bush Street, San Francisco 6
Atlanta · Boston · Chicago · Cleveland · Detroit · Houston · Los Angeles · Newark · St. Louis
IN CANADA: Chemical Division, Shell Oil Company of Canada, Limited · Toronto · Montreal · Vancouver

Mica, wet-ground, while, extra, fine, bags., c.l., works, frt. alld. E ..lb. .07¼- —
l.c.l., ex whse or frt. alld. E..lb. .08½- —
Mica, wet-grd., W. of Miss. R., ½c. higher; W. of Rockies, 1c. higher.
Milk powder, skimmed, roller, bbls., c.l. ..lb. .12½- .15¼
spray, bbls., c.l. ..lb. .15½- .16¾
whole, roller, bbls., c.l. ..lb. No prices.
spray, bbls., c.l. ..lb. .33 - .38¼
Sugar, crude, bgs., c.l., works. lb. .18 - —
edible, bgs., 30,000-lb. lots, works ..lb. .24 - —
2,000-lb. lots, works ..lb. .24¾- —
200-1,800-lb. lots, works ..lb. .25¼- —
Edible milk sugar in fib. dms., 1c. higher.
USP, fib. dms., 30,000-lb. lots, works lb. .29 - —
2,000-lb lots, works ..lb. .29¾- —
200-1,800-lb lots, works lb. .30¼- —
USP milk sugar in bgs. 1c. lower
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans..gal. .11½- —
New York ..gal. .12½- .13
Molybdenum metal, 95% Mo powd., kgs lb. 3.00 Nom.
Trioxide, pure, kgs., works basis Mo. content lb. 1.40 - —
technical, kgs., works basis Mo. content lb. 1.15 - —
Monobutylamine, dms., c.l., E. of Rockies lb. .54¾- —
l.c.l., same basis ..lb. .55¾- —
tanks, same basis ..lb. .53 - —
Monochlorobenzene, dms., c.l., frt. alld. or dlvd. E..lb. .11½- —
l.c.l., same basis ..lb. .12½- —
tanks, same basis ..lb. .10 - —
Monochlorobenzene prices in the West, 1¾c higher.
Monoethanolamine dms. c.l. dlvd. E. lb. .29¾- —
l.c.l., same basis ..lb. .30¾- —
tanks, same basis ..lb. .28 - —
Monoethylalphanaphthylamine, dms., works..lb. 1.02 - —
Monoethylamine, 70% contained amine, dms., c.l., dlvd. E. lb. .32 - —
l.c.l., dlvd. E..lb. .33 - —
tanks, dlvd. E..lb. .30¼- —
Monoethylanilin, dms., c.l., frt. alld. lb. .51 - —
l.c.l., frt. alld..lb. .52 - —
tanks, frt. alld..lb. .50 - —
Monoethylorthotoluidin, bbls..lb. .88 - —
Monoisopropylamine, dms. c.l., dlvd. lb. .29½- —
l.c.l., same basis ..lb. .30½- —
tanks, same basis ..lb. .28½- —
Monomethylamine 25%-40%, dms., c.l., frt. equald., basis 100%. lb. .33 - —
l.c.l. same basis ..lb. .32½- .36
tanks, same basis ..lb. .31 - —
Monosodium nuoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate, monobasic.
Phosphate (see Sodium phosphate monobasic).
Mono-tertiary butylmetacresol, dms., c.l., works lb. .49 - —
l.c.l., works..lb. .50 - —
tanks, works..lb. .48 - —
Morphine, cns. ..oz. 12.40 -12.60
Acetate, anhyd. cns..oz. 9.95 -10.00
Hydrobromide, cns ..oz. 9.90 9.95
Hydrochloride, NF, cns..oz. 9.90 9.95
Sulphate, USP cns ..oz. 9.90 -10.05
Morpholine dms., c.l., dlvd. E lb. .54¾- —
l.c.l., dlvd. E ..lb. .55¾- —
tanks, dlvd. E ..lb. .53 - —
Musk, natural Tonquin grains, bots. oz. No stocks.
synthetic, ambrette, 100-lb. lots, fib. dms..lb. 5.15 - —
25-lb. lots, cns..lb. 5.20 - —
5-lb. lots, cns ..lb. 5.30 - —
ketone, 100-lb lots, fib. dms. lb. 5.30 - —
25-lb lots cns ..lb 5.35 - —
5-lb. lots, cns..lb. 5.45 - —
xylol, 100-lb. lots, fib. dms..lb. 1.40 - —
25-lb. lots, cns ..lb. 1.45 - —
5-lb. lots, cns..lb. 1.50 - —
Mustard seed, Danish, yellow, bgs.lb. .11 - .11½
Dutch, yellow, bgs ..lb. .10 - .10½
English, yellow, bgs..lb. .11 - .12
Myrobalans, J-1, assorted, bgs., ex dock..ton. 48.00 Nom.
crushed, bgs., ex dock..ton. 61.50 - —
ordinary, bgs., ex dock..ton. 44.00 - —
extract, Indian, solid 53% tannin, ex dock, plus duty...lb. .07¼- —

## N

Naphtha, painters (see Petroleum naphtha V M & P).
Solvent (see Solvent).
Naphthalene, crude, dom., 74° tanks, frt. equald lb. .0625- —
78° dms. c.l., same basis lb. .0765- —
l.c.l. same basis ..lb. .0790- —
tanks, same basis ..lb. .0675- —
imported, 78°, large lots..lb. .03¼- .03½
refined, dom., industrial, bbls., c.l., frt. equald..lb. .11¾- —
bgs., c.l., same basis ..lb. .11¼- —
tanks, same basis ..lb. .10¾- —
Naphthalene, refined, balls, flakes, wholesalers, jobbers, bbls., c.l., same basis..lb. .14½- —
cs. 50 lbs. c.l., same basis lb. .14¾- —
1-lb. pkgs. c.l., same basis lb. .17 - —
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 - 8.00
Neomycin fib. dms., 100-kilo lots, basis, activity gm. .60 - —
1-kilo lots, basis, activity gm. 1.20 - —
Nepheline syenite, glass, 24 mesh, bulk, works ..ton. 14.25 - —
pottery, 200 mesh, bulk, works, N.Y. ton. 18.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.
Nerolin, cns..lb. 2.15 - 2.65
Niacin (see Acid nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd..lb. .75 - .88½
Carbonate, bbls., dlvd..lb. .71 - .76
Chloride, bbls., dlvd ..lb. .37 - .45
Formate, bbls., ton lots, frt. alld. lb. .64 - .65
Metal, electro cathodes, cs., works, lb. .60 - —
Nitrate, bbls., works..lb. .36 - .37
Oxide, black, bbls..lb. .69 - —
Sulphate, bgs., c.l., dlvd..lb. .29 - —
l.c.l., dlvd..lb. .29½- .37
Nicotinamide USP, dms., frt. adjusted kilo 12.00 -12.50
Hydrochloride, dms., frt. adjusted. kilo. 11.50 -11.00

Nicotine sulphate, 40%, dealers, 50-lb. dms., frt. alld ..lb. 1.11 - —
10-lb. tins, 6 to a case, frt. alld., on 200 lbs ..lb. 1.20 - —
manufacturers, 500-lb. dms., frt. alld..lb. .925 - —
Niger seed, bgs., afloat..lb. .12½- .13
Nikethamide, cbys ..lb. 7.50 - 8.00
Nitrobenzene, dbl. dist., dms., c.l., frt. alld..lb. .12 - —
l.c.l., frt. alld ..lb. .13 - —
tanks, frt. alld..lb. .11 - —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .33 - —
l.c.l., same basis ..lb. .34 - .36
18-25 cps., bbls., c.l. ..lb. .35 - —
l.c.l. same basis ..lb. .36 - .38
250-400, 600-1,000 secs., bbls., same basis lb. .42 - —
l.c.l., same basis lb. .43 - .45
spirit-soluble, 30-35 cps., ¼, ½, sec., bbls., same basis lb. .43 - —
l.c.l., same basis lb. .46 - .48
5-6, 40-60 secs., bbls., c.l., same basis lb. .44 - —
l.c.l., same basis lb. .45 - .47
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.
Nitroethane, dms., dlvd E. of Rockies. lb. .25 - —
Nitrogen solution, tanks, works, 37-40.8% N, basis 100% ..ton. 128.00 - —
Nitrogenous process tankage bulk, works, uni-ton. 3.50 - 3.75
Sewage sludge, bulk, works unit-ton. 3.75 + .50
Nitromethane, dms., l.c.l., dlvd E. of Rockies lb. .25 - —
Nitropropane 1, dms., dlvd. E. of Rockies lb. .23¾- —
2, dms., dlvd. E. of Rockies lb. .25 - —
Nonylphenol, dms., c.l., works lb. .33¼- —
l.c.l., works ..lb. .33¾- —
tanks, works ..lb. .32¼- —
Nutgalls, Aleppo, bgs ..lb. .38 - —
Chinese, bgs..lb. .45 Nom.
Nutmeg, East Indian, whole, cs. lb. .32 - .33
shrivels, bgs ..lb. .31½- .32
West Indian, bgs..lb. .26 - —
Nux vomica, bls ..lb. .08 - .10
powdered, bbls., bxs..lb. .13 - .15

## O

Octane, industrial, tanks, Bayonne, N. J. gal. .19 - —
Baytown, Tex..gal. .15¾- —
Borger, Tex. ..gal. .15¾- —
Octanol, normal, tech., dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd..lb. .37 - —
tanks, dlvd ..lb. .32½- —
Octyl methacrylate, normal, dms., less than truckloads, works. lb. .83 - —
Octylphenol, dms., c.l., works lb. .26¾- —
l.c.l., works ..lb. .27¼- —
tanks, works ..lb. .25¾- —

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

Oil, abies siberica, cns..lb. 2.10 - 3.00
Almond, artificial, bitter (see Benzaldehyde).

### Mica, Wet-Ground, White—Oil, Cassia

Oil, almond, natural, bitter, F.P.A., bots..lb. 3.00 - 3.40
NF, bots. ..lb. 3.25 - 3.75
sweet, USP, dms., cns ..lb. .55 .90
Allspice (see Oil, pimento).
Amyris, dms..lb. 1.40 - 1.90
Angelica root, bots..lb. 70.00 -120.00
seed, bots ..lb. 55.00 -95.00
Anilin (see A).
Anise, USP, dms..lb. 2.25 - 3.00
Apricot, kernel, USP, dms ..lb. .37 - .46
Avocado, cns., dms ..lb. No prices.
Babassu crude tanks ..lb. No stocks
Bay, NF, Puerto Rican, 50-53%, cns ..lb. 1.45 - 1.90
55-60%, cns. ..lb. 1.65 - 2.10
West Indian, 50-55%, cns., dms. lb. 1.45 - 2.25
Bergamot, artif., cns ..lb 2.90 - 5.00
natural, NF, Italian, cns...lb. 10.50 -12.50
Birchtar, crude, cns..lb. 1.75 - 2.00
rectified, NF cns..lb. 2.50 —
Bois de rose, Brazil, dms. ..lb. 3.95 - 4.25
Mexican (see Oil, lignaloe wood).
Bone, dms. works ..lb .63 .70
Cajeput, redist., USP, cns..lb. 2.25 - 3.00
tech., cns. ..lb. 1.90 - 2.75
Calamus, bots..lb. 19.00 -20.00
Camphor, sassafrassy, dms. ..lb. .25 - .40
white, dms..lb. .19 - .35
Cananga, native, cns..lb. 8.75 -11.50
rectified, cns..lb. 12.10 -13.75
Capsicum (see Capsicum oleoresin).
resin).
Caraway, NF, cns..lb. 1.90 - 3.30
Cardamom, NF, bots..lb. 27.00 -40.00
Cassia, USP (see Oil, cinnamon, USP).


Available for immediate delivery . . . in tank-car quantities

DU PONT METHYLAMINES

AQUEOUS and ANHYDROUS

- MONOMETHYLAMINE $CH_3 NH_2$
- DIMETHYLAMINE $(CH_3)_2 NH$
- TRIMETHYLAMINE $(CH_3)_3 N$

Moderate prices and low equivalent weights favor the use of methylamines in a wide variety of organic reactions. But Du Pont methylamines offer you still more . . . the assurance of high, uniform quality from a reliable source of supply.

Available in both aqueous and anhydrous forms, Du Pont methylamines are used in the preparation of dyes, rubber chemicals, fungicides, herbicides, and many other products. They are recognized as the most economical aliphatic amines by an ever-increasing number of manufacturers. All three amines—monomethylamine, dimethylamine, and trimethylamine—are currently available in tank-car to drum and cylinder quantities.

**A REQUEST** on your company letterhead will bring complete information about Du Pont methylamines—including price data and shipping points. Just write: E. I. du Pont de Nemours & Co. (Inc.), Organic Chemicals Dept., Wilmington 98, Delaware.

**MONOMETHYLAMINE**—Used in the tanning process for leather; in the preparation of rayon and synthetic fibers prior to dyeing; in the manufacture of dyes; as a solvent for many organic compounds.

**DIMETHYLAMINE**—Used as a dehairing agent in processing leather; in the preparation of vulcanization accelerators for rubber; in the preparation of pharmaceuticals, fungicides, and herbicides; as an additive for gasoline stabilizers; as a starting point for flotation agents and antioxidants; as a gas absorbent.

**TRIMETHYLAMINE**—Used in organic synthesis; as a warning agent for gas; as an insect attractant for insecticides; as a starting point in the manufacture of animal nutrients.

ORGANIC CHEMICALS DEPARTMENT

DU PONT REG. U.S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING ... THROUGH CHEMISTRY

## Oil, Castor—Oil, Tung

| | | | |
|---|---|---|---|
| Oil, castor, blown, dms., c.l. | lb. | .2400- | — |
| l.c.l. | lb. | .2550- | — |
| dehydrated, bodied, dms., c.l., | lb. | .2710- | — |
| l.c.l. | lb. | .2760- | — |
| tanks | lb. | .2610- | — |
| unbodied, dms., c.l. | lb. | .2560- | — |
| l.c.l. | lb. | .2610- | — |
| tanks | lb. | .2460- | — |
| Hydrogenated, bgs. | lb. | .3060- | .3180 |
| No. 1, Brazilian, tanks | lb. | .1900- | — |
| USP, dms., c.l. | lb. | .2200- | — |
| l.c.l. | lb. | .2250- | — |
| tanks | lb. | .2100- | — |
| refined and deodorized, dms., c.l. | lb. | .2350- | — |
| l.c.l. | lb. | .2400- | — |
| tanks | lb. | .2250- | — |
| No. 3, tech., dms., c.l. | lb. | .2175- | — |
| l.c.l. | lb. | .2225- | — |
| tanks | lb. | .2075- | — |
| sulphonated, 50% (48% fat), dms., l.c.l. | lb. | .14½- | .15 |
| 75% (60-62% fat), dms., l.c.l., | lb. | .20 | - .21 |
| Cedarleaf, cns., dms | lb. | 2.00 | - 3.00 |
| Cedarwood, cns., dms. | lb. | .42 | - .65 |
| Celery seed, bots | lb. | 16.50 | -21.00 |
| Chamomile, blue, Hungarian, bots. | lb. | 150.00 | -280.00 |
| Chaulmoogra, NF, cns., dms. | lb. | .55 | - .70 |
| Chinawood (see Oil, tung). | | | |
| Cinnamon bark, USP, bots. | lb. | 18.50 | -60.00 |
| leaf, cns. | lb. | 1.25 | - 3.25 |
| USP, cns., dms. (Cassia) | lb. | No Stocks. | |
| Citronella, Ceylon, cns., dms. | lb. | .50 | - .85 |
| Java, true dms. | lb. | .65 | - .70 |
| Java-type cns. | lb. | .52 | - 1.00 |
| Clove, USP, from buds, cns., dms. | lb. | 7.00 | -10.75 |
| Oil, coconut, crude, tanks, N. Y. | lb. | .16¾- | — |
| Pac. Coast | lb. | .15¼- | — |
| refined, Cochin type, tax incl., ret. dms., l.c.l. | lb. | .22½- | — |
| deodorized, tax incl., non-ret. dms., c.l. | lb. | .24¾- | — |
| Cod, Newfoundland, dms. | lb. | .09½- | .10 |
| Codliver, USP, dms. | gal. | 1.55 | - 1.65 |
| Copaiba, cns. | lb. | 1.80 | - 2.50 |
| Coriander, USP, bots. | lb. | 17.00 | -23.50 |
| Corn, crude, tanks, works | lb. | .14 | - — |
| foots (soapstock), acid, 95%, tanks, N. Y. | lb. | .04 | - — |
| refined, salad, dms. | lb. | .18⅝- | .19 |
| tanks | lb. | .17⅛- | — |
| Costus, bots. | oz. | 9.00 | -25.00 |
| Cottonseed, crude, tanks, South-East | lb. | .13 | Nom. |
| Valley | lb. | .13 | Nom. |
| Texas | lb. | .12¾ | Nom. |
| foots (soapstock), acid 95%, tanks, N. Y. | lb. | .03 | - — |
| raw, 50%, tanks, same basis. | lb. | .01¼- | — |
| refined, salad, dms. | lb. | .18 | - .18½ |
| tanks | lb. | .16⅜- | — |
| Creosote (see Creosote, coaltar). | | | |
| Croton, cns. | lb. | 4.30 | 5.50 |
| Crude (see Petroleum crude). | | | |
| Cubeb, cns | lb. | 4.50 | - 7.25 |
| Cumin, bots | lb. | 4.50 | - 6.00 |
| Cypress, bots. | lb. | 5.30 | - — |
| Degras (see D). | | | |
| Dillseed, bots. | lb. | 2.80 | - 3.75 |
| Dillweed, dom., dms., bots. | lb. | 3.55 | - 5.25 |
| Dip (see D) | | | |
| Erigeron, cns. | lb. | 5.50 | - 7.50 |
| Eucalyptus, NF, rectified, 70-80%, dms. | lb. | .60 | - 1.00 |
| 80-90%, dms. | lb. | .85 | - 1.25 |
| Oil, fennel, sweet, USP, cns. | lb. | 2.25 | - 3.25 |
| Fir, Canada, cns. | lb. | 2.65 | - 3.10 |
| Fish, refined, alkali, dms. | lb. | .1400- | .1500 |
| kettle-bodied, dms. | lb. | .1580- | .1680 |
| light-pressed, dms. | lb. | .1250- | .1350 |
| tanks | lb. | .11 | - — |
| Fishliver, crude, for feeds or concentrating, 4,000 to 12,000 A units per gm., dms., 1,000,000 units. | | .08 | - .09 |
| 10,000 to 20,000 A units per gm., dms. 1,000,000 units. | | .09 | - .10 |
| 25,000 to 35,000 A units per gm., dms. 1,000,000 units. | | .09 | - .10 |
| 40,000 to 55,000 A units per gm., dms. 1,000,000 units. | | .10½- | .11 |
| 100,000 A units per gm., dms. 1,000,000 units. | | .12 | - .14 |
| 200,000 A units per gm., dms. 1,000,000 units. | | .12 | - .14 |
| 300,000 A units per gm., dms. 1,000,000 units. | | .12 | - .14½ |
| 400,000 A units per gm., dms. 1,000,000 units. | | .12 | - .14½ |
| 500,000 A units per gm., dms. 1,000,000 units. | | .12 | - .14½ |

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.

| | | | |
|---|---|---|---|
| Fusel (see F). | | | |
| Garlic, pure, bots | oz. | 9.00 | -10.50 |
| Gaultheria (see Oil, wintergreen). | | | |
| Geranium, Algerian, cns. | lb. | 8.75 | -16.50 |
| Bourbon, cns | lb. | 9.75 | -12.25 |
| Turkish (see Oil palmarosa) | | | |
| Ginger, dist., bots. | lb. | 11.00 | -14.00 |
| Grapefruit, dms. | lb. | 2.90 | - 3.10 |
| Grease, No. 1, dms | lb. | .10 | - .11 |
| extra, winter, strained, dms. | lb. | .13 | - .14 |
| prime, burning, dms. | lb. | .14 | - .15 |
| Oil, guaiacwood, cns. | lb. | 1.40 | - 1.90 |
| Hemlock, cns. | lb. | 2.10 | - 2.50 |
| Juniper berry, NF, VIII, bots. | lb. | 2.75 | - 4.00 |
| twice rectified, bots | lb. | 3.60 | - 7.00 |
| Tar, NF (see Juniper tar). | | | |
| Wood, tech., cns. | lb. | .42 | - .50 |
| Lard (see Oil, grease). | | | |
| Laurel leaf, dms., cns. | lb. | 9.75 | -12.50 |
| Lavandin, dms., cns. | lb. | 2.00 | - 2.50 |
| Lavender, flower, USP, French, 30-32% ester, cns. | lb. | 2.50 | - 4.50 |
| 36-40% ester, cns | lb. | 5.25 | - 7.25 |
| 40-42% ester, cns. | lb. | 5.60 | - 7.35 |
| Spike, Spanish, cns | lb. | 1.45 | - 2.00 |
| Lemon, USP, Calif., cns., dms. | lb. | 7.00 | - 7.50 |
| Messina, cns. | lb. | 6.75 | - 9.75 |
| terpeneless, bots | lb. | 32.00 | -85.00 |
| Lemongrass, cns., dms. | lb. | .98 | - 1.40 |
| Lignaloe wood, Mex., cns. | lb. | 3.25 | - 4.25 |
| Lime, distilled, Mexican, cns. | lb. | 5.25 | - 6.50 |
| West Indian, cns. | lb. | 6.00 | - 7.25 |
| expressed, West Indian, cns | lb | 7.85 | - 8.50 |
| terpeneless, bots. | lb. | 29.50 | -100.00 |
| Linseed, raw, dms., c.l., N. Y. | lb. | .1855- | — |
| l.c.l. | lb. | .1905- | .1955 |
| tankcars, f.o.b. Minneapolis | lb. | .1580- | .1600 |
| New York | lb. | .1705- | — |
| tankwagon, New York | lb. | .1735- | — |
| Boiled linseed oil, .006c per lb. higher. | | | |
| Mace, dist., cns., dms. | lb. | 2.45 | - 4.25 |
| Mandarin, Floridian, dms | lb. | 3.00 | - 5.35 |
| Italian, cns | lb | 6.50 | - 8.50 |
| Menhaden, crude, tanks, Atlantic Coast | lb. | .07 | - — |
| Gulf ports | lb. | .07 | - — |
| Mineral, white (see Oils, white, mineral) | | | |
| Mirbane (see Nitrobenzene). | | | |
| Mustard seed, nat., dms. | lb. | .16½- | .16¾ |
| synthetic, cns., dms | lb | 1.60 | - 1.85 |
| Neatsfoot, 15°, cold test, dms. | lb. | .33 | - .34 |
| 20° cold test, dms. | lb. | .32 | - .33 |
| 30° cold test, dms. | lb | .30 | - .31 |
| Neroli, NF, French, bots. | lb. | 160.00 | -250.00 |
| petale, bots | lb | 40.00 | -150.00 |
| Nutmeg, USP dist., East Indian, cns., dms | lb. | 2.85 | - 3.65 |
| West Indian, cns., dms | lb | 2.60 | - 3.65 |
| Ocotea cymbarium, dms. | lb. | .65 | - 1.00 |
| Oiticica, liquid, dms. | lb. | .21¼- | .21½ |
| tankcars | lb. | .19¾- | — |
| Oleo, extra, dms. | lb. | .19 | Nom. |
| Olibanum, bots. | lb. | 5.50 | - 7.65 |
| extra fine, bots | lb | 8.00 | — |
| Olive, commercial, dms. | gal. | 2.35 | - — |
| edible, dms., duty paid | gal. | 2.55 | - 2.65 |
| Orange, sweet, dist., cns. | lb. | .40 | - .80 |
| expressed, USP, Brazilian, cns., dms | lb | No stocks. | |
| Calif., cns., dms. | lb. | .78 | - 1.25 |
| Florida, cns., dms. | lb. | .68 | - 1.25 |
| Messina, cns. | lb | 3.85 | - 5.85 |
| West Indian, cns. | lb. | 2.75 | - 4.00 |
| sesquiterpeneless, bots. | lb. | 135.00 | -150.00 |
| Origanum, Spanish, cns. | lb. | 2.00 | - 2.75 |
| Palm, clarified, dms. | lb. | .12¼- | .12¾ |
| Palm kernel, in bond, tanks. | lb. | .14¾- | — |
| Palmarosa, cns. | lb. | 5.50 | - 6.50 |
| Paraffin, pale, 100-110 vis., at 100° F tanks, East Coast refinery | gal | 14 | — |
| Patchouli, dms. | lb. | 7.85 | - 9.00 |
| Peach kernel, USP (see Oil apricot kernel). | | | |
| Peanut, crude, tanks, f.o.b. mills. | lb. | .23 | - — |
| refined, dms. | lb. | .28¼- | .28½ |
| tanks | lb. | .26¾ | Nom. |
| Pennyroyal, USP, imported, cns. | lb. | 1.60 | - 2.40 |
| Peppermint, natural, dms. | lb. | 4.50 | - 6.35 |
| redist., USP, dms. | lb. | 4.90 | - 7.25 |
| Persic, USP (see Oil apricot kernel) | | | |
| Petitgrain, South American, cns., dms. | lb. | 2.45 | - 2.70 |
| Pimento berry, NF, dms. | lb. | 4.40 | - 5.50 |
| leaf, cns. | lb. | 2.25 | - 3.00 |
| Pine, dest., dist., dms., extra, c.l., works | gal. | .7½- | — |
| l.c.l. | gal. | .76½- | — |
| ex whse. | gal. | .95½- | — |
| steam dist., dms., ex whse., N.Y.C | lb. | .143 | - — |
| Pineneedle, Siberian (see Oil, abies siberica). | | | |
| Putty, petroleum, dms., c.l., dlvd. | lb. | .11 | - — |
| l.c.l., same basis | lb. | .12 | - — |
| tanks, same basis | lb. | .10 | - — |
| Rapeseed, tankcars | lb. | .17 | - — |
| Red (see Acid, oleic). | | | |
| Rice bran, clarif., dms. | lb. | .16½- | .17 |
| tanks, dlvd. E | lb. | .14 | Nom. |
| Rose, natural, Bulgarian, bots | oz. | 55.00 | -62.25 |
| Rosemary, Spanish, tech., cns., dms | lb. | .60 | - .90 |
| USP, cns., dms. | lb. | .75 | - 1.00 |
| Rue, bots. | lb. | 2.00 | - 2.50 |
| Safflower, dms., c.l., Atlantic coast. | lb. | .16½- | — |
| tanks, same basis | lb. | .15 | - — |
| Sage, clary, bots. | lb. | 20.00 | -25.00 |
| Dalmatian, cns. | lb. | 7.50 | - 8.25 |
| Spanish, cns | lb | .90 | - 1.25 |
| Sandalwood, NF, cns. | lb. | 9.25 | -11.50 |
| Sardine, crude, tanks, Pac. coast. | lb. | No stocks. | |
| Sassafrass, artificial, dms. | lb. | .42 | - .70 |
| natural, Brazilian (See Oil, ocotea cymbarum) | | | |
| domestic, USP, cns., dms. | lb. | 1.75 | - 2.25 |
| Savin, cns. | lb. | 2.75 | — |
| Savory, cns | lb | No stocks. | |
| Sesame, refd., dms. | lb. | .36 | - .37 |
| Shingle stain, tar distillate, dms., c.l., works | lb. | .33 | - — |
| l.c.l., works | lb. | .35 | - — |
| tanks, works | lb | 23 | — |
| Snakeroot, Canada, cns. | lb. | 29.50 | -33.00 |
| Soybean, crude, tanks, mills | lb. | .11¾- | — |
| foots (soapstock), acid, 95%, tanks, N. Y. | lb. | .05 | - — |
| raw, 50%, tanks, N. Y. | lb. | .02 | - — |
| refined, alkali, dms., c.l. | lb. | .15⅞- | — |
| l.c.l. | lb. | .16⅝- | .16¾ |
| tanks | lb. | .14⅜- | — |
| clarified, dms., c.l. | lb. | .15⅝- | — |
| l.c.l. | lb. | .15⅞- | .16¼ |
| tanks | lb. | .13⅞- | — |
| salad, dms. | lb. | .16 | - .16¼ |
| tanks | lb. | .14½- | — |
| Spearmint, USP, dms. | lb. | 6.05 | - 8.50 |
| Sperm, bleached winter, 45°, dms. | lb. | .1375- | .1450 |
| tankcars | lb. | .1200- | — |
| natural winter, 45° dms. | lb. | .1275- | .1325 |
| tankcars | lb. | .1100- | — |
| Spruce, cns., dms. | lb. | 2.10 | - 2.75 |
| Sweet birch, USP, Northern, cns. | lb. | 4.95 | - 9.50 |
| Southern, cns. | lb. | 3.00 | - 3.25 |
| Tall, crude, tanks, works | ton. | 45.00 | - — |
| refined, dms., c.l., works | lb. | .06¼- | .07¼ |
| l.c.l., works | lb. | .06½- | .07½ |
| tanks, works | lb. | .05 | - .06 |
| Tallow, acidless, dms. | lb. | .11 | - .11¼ |
| Tansy, dms | lb. | 6.25 | - 9.00 |
| Tar, pine, com'l, dms., extra, c.l., works | gal. | .42½- | — |
| l.c.l., works | gal. | .50½- | — |
| whse. | lb. | .0678- | — |
| tanks, works | gal. | .33½- | — |
| rectified, NF, dms. incl., l.c.l., works, South | gal. | .90 | - — |
| whse., N.Y.C. | gal. | 1.00 | - — |
| Tar acid (see T) | | | |
| Theobroma (see Cocoa butter) | | | |
| Thyme, NF, red, cns., dms. | lb. | 1.70 | - 3.75 |
| white, cns. | lb | 1.95 | - 4.00 |
| tech., white, cns. | lb. | .40 | - 1.85 |
| Tung, dms., c.l., N.Y. | lb. | .28 | - — |
| l.c.l., same basis | lb. | .28½- | .29 |
| tanks, N. Y. | lb. | .26¼- | .26½ |
| mills | lb. | .26¾ | Nom. |

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## Oil, Turkey Red—Pepper, White

Oil, Turkey red (see Oil, castor, sulphonated).
Turpentine, NF, cns., dms. lb. .20 - .45
Vetiver, Bourbon, cns. lb.18.00 -21.50
Haitian, cns. lb.14.50 -16.00
Java, cns. lb.25.00 -40.00
Wheat germ, 5-gal. dms gal.10.00 -13.00
White mineral, tech., 50-65 vis., non-ret. dms., f.o.b. N. Y., c.l. gal. .51½- .54½
65-75 vis., same basis, l.c.l. gal. .52½- .55
l.c.l. gal. .57½- .58½
NF, 80-90 vis., same basis, c.l. gal. .53½- .56½
l.c.l. gal. .58½- .59½
125-135 vis., same basis, c.l. gal. .59½- .62½
l.c.l. gal. .64½- .65½
145-155 vis., same basis, c.l. gal. .66 - .68½
l.c.l. gal. .71 - .71½
175-185 vis., same basis, c.l. gal. .69½- .73
l.c.l. gal. .74½- .75
USP, 200-210 vis., same basis, c.l. gal. .72½- .75
l.c.l. gal. .77½- .78
345-355 vis., same basis, c.l. gal. .77 - .80
l.c.l. gal. .83 - .85
Wintergreen, USP, nat., Northern, cns lb. 7.15 -14.50
Southern, cns. lb. 3.20 -19.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, cns. lb. 7.70 - 9.95
Wormwood, cns. lb. 5.50 - 6.85

Oil, ylang-ylang, Bourbon, bots. lb.18.00 -30.00
extra, bots lb.30.50 -40.00
Madagascar bots lb No stocks.
Oleostearine bbls. lb. .13 Nom.
Olivine aggregate, bulk, c.l., mines. ton. 7.00 - 9.50
crushed 8 mesh bulk c.l. works ton.10.00 - —
paper, bgs, c.l., works ton 12.00 —
Opium, USP, cns lb.19.20 -19.45
gran., USP, cns. lb.21 65 -21 90
powd., USP cns lb 21 65 -21.90
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies lb. 1.20 - —
Chrome, CP, bbls., dlvd N. of Tenn and N. C. E of Miss. R., include Davenport, Tenn. and N. C. E. of Minneapolis, Rock Island, St. Louis, St. Paul lb .31 - —
Chrome orange prices are ½c. higher dlvd Ala Fla., Ga. La (Shreveport), 1¼c. Miss., N. C., S. C., Tenn. Dallas and Ft. Worth, Tex., 1½c El Paso Tex., 2c. Cedar Rapids, Des Moines Kansas City Lincoln, Omaha St Joseph; 1.6c higher dlvd Pac. Coast, for Denver, Pueblo Salt Lake City, Wichita prices are equalized with Chicago.
Dinitroanilin toner lb. 1.30 - —
Mineral, American, bbls, l.c.l., works lb. .1910- —
Molybdated, bbls lb. .44 - —
Orthonitroanilin toner, kgs lb. 1.15 - —
Persian, bbls lb. .65 - —
Peel, bitter Haitian, bls lb. .12 - .14
sweet, bls lb. .16 - .18

Orris root, Florentine, bls lb. .29 - .30
powdered, bbls., bxs lb. .35 - .38
Verona, bls. equald lb. .18 - .19
powdered, bbls, bxs lb. .23 - .24
Orthoaminobiphenyl, dms., c.l., works lb. .32½- —
dlvd lb. .33 - —
l.c.l., same basis lb. .37 - —
tanks, same basis lb. .37 - —
Orthoanisidin, bbls. lb. .88 - —
Orthochloroanilin, dms., c.l. lb. .70 - —
l.c.l. lb. .72 - —
Orthochlorobenzaldehyde, dms., works lb. 1.20 - —
Orthochloroparanitroanilin, dms. dlvd lb. .86 - —
Orthochlorophenol dms. c.l., frt. equald lb. .34½- —
l.c.l. same basis lb. .35½- —
Orthocresol, pure, 30° C., non-ret., dms c.l., frt. equald lb. .173 - —
l.c.l., same basis lb. .176 - —
ret. dms., c.l., same basis lb. .17 - —
l.c.l., same basis lb. .17½- —
tanks, same basis lb. .16 - —
29°C., ret. dms., c.l., same basis. lb. .16 - —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .15 - —
25-29°C., non-ret. dms., c.l., same basis lb. .153 - —
l.c.l. same basis lb. .156 - —
tanks, same basis lb. .140 - —
Orthodichlorobenzene, dms. c.l., works, frt. alld E. of Rockies lb. .12¼- —
l.c.l., same basis lb. .13¼- —
tanks, same basis lb. .10¾- —
Orthoisopropyl N phenylcarbamate (See (PC).
Orthonitroanilin, flaked, dms. lb. .54 - .57
powd., dms lb. .60 - —
Orthonitrochlorobenzene dms lb. .20 - .21
Orthonitrohiphenyl tech. dms., c.l., works lb. .14½- —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —

Orthonitroparachlorophenol cns lb. .75 - —
Orthonitrophenol, bbls, works, frt. equald lb. .94 - —
Orthonitrotoluene dms., c.l., frt. alld. lb. .10 - —
l.c.l., frt. alld lb. .11 - —
tanks, frt. alld lb. .09 - —
Orthophenetidin dms., works lb. 1.00 - —
Orthophenylphenol 6b. dms., works. lb. .20 - .44
Ortho-tertiary-amylphenol, dms., c.l., works lb. .43¾- —
l.c.l., works lb. .46¾- —
tanks, works lb. .41¾- —
Orthotolidin (see Tolidin Base).
Orthotoluidin, dms., c.l., works lb. .23 - —
l.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
Osage orange, crystals, No. 1, bbls., l.c.l lb. .40 - —
extract, liquid, No. 1, bbls., l.c.l lb. 19 - —
Ouabain, USP, bots gram. 3.00 - 4.00
Ox bile, extract, powdered, USP 5-lb. lots or more lb. 6.00 - —
not extract, powdered 5-lb. lots or more lb. 4.35 - —
Oxyquinolin sulphate, cns., 100-lb. lots, works lb 4.75 - 5.00
smaller lots, works lb. 4.92 - 5.17

## P

Pancreas substance, assay 1:75 bots., 5-lb. lots or more lb. 5.75 - —
Pancreatin, USP bots lb. 2.50 - 3.00
Panthenol, bots, works, frt. adjust. kilo 90.00 - —
Papaverine, natural or synthetic hydrochloride, USP, cns., 25 oz. to 100 oz., lots oz. 5.00 - —
smaller lots oz. 5.05 - 5.20
Sulphate, cns oz. 7.10 - 7.35
Paprika, Czech, bgs lb. No Stocks
Spanish, bgs lb. .45 - .46
Para-anisidin, dms., works lb. .97 - —
Para-acetylaminobenzaldehyde thiosemicarbazone, dms., frt. adjusted lb.17.50 -21.00
Para-aminophenol dms., frt. alld lb .97 - .98
Parachloroanilin, dms., c.l., works, frt. equald lb. .75 - —
Parachlorobenzaldehyde, dms., works lb. 1.33 - 1.36
Parachloro-orthonitroanilin, dms., frt. alld lb. .73 - .83
Parachlorophenol, dms., c.l., frt. equald lb. .34½- —
l.c.l., same basis lb. .35½- —
Paracresol 98%, dms., c.l., dlvd lb. .49 - —
l.c.l., dlvd lb. 51 - —
Methylether, cns lb. 1.90 - 2.50
Paracymene, dms., 50-gal. lots or more, works gal. 2.50 - —
smaller lots gal 3.00 - —
Paradibromobenzene, bgs, 500-lb lots. lb. .55 - —
Paradichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies lb. .16½- —
l.c.l., same basis lb. .17½- .1
Paraffin, crude scale, white, 121°-123°F, ASTM, solid, c.l., ref'y lb. .06 - —
fully refined, 122-124 ASTM, loose, c.l., rfy lb. .0795- —
125°-127°F, ASTM, loose, c.l., rfy lb. .0795- —
130°-132°F, ASTM, loose, c.l., ref'y lb. .0805- —
132°-134°F, ASTM, loose, c.l., refy lb. .0805- —
135°-137°F, ASTM, loose, c.l., ref'y lb. .0805- —
Prices for paraffin in bags and ctns. c.l. 7 10c. per lb higher; 1.000 to 9.999 lbs., 2.7c per lb higher and under 1.000 lbs., 3.7c. per lb. higher
Paraformaldehyde, tech., 91% powd., bgs., c.l., frt. alld. lb. .15½- —
l.c.l., frt. alld lb. .17 - —
flake, bgs., c.l., frt. alld lb. .12 - —
l.c.l. frt alld lb. .13½- —
USP X, fib dms., c.l. lb. .198 - —
10,000-lb lots lb. .198 - —
1,000-lb. lots lb. .198 - —
smaller lots lb. .208 - —
Paraldehyde, tech., 98%, 55-gal. dms., c.l., works lb. .1385- .1650
l.c.l., works lb. .1485- .1750
tanks, works lb. .1200- .1500
Paranitroanilin, dms., c.l., works, frt. alld lb. .50½- —
l.c.l., works, frt. alld lb. .53½- —
Paranitrochlorobenzene, kgs., works. lb. .26 - .27
Paranitrophenol, kgs., works, frt. equald lb. .50 - —
Paranitrotoluene, kgs., fib. dms., works lb. .33 - .36
Paraphenetidin, dms., works lb. 1.00 - —
Paraphenylenediamine redistilled, dms. works lb. 2.00 - —
tech., refd. dms., same basis lb. 1.10 - 1.35
Paraphenylphenol, bgs., c.l., works. lb. .37½- —
l.c.l., same basis lb. .42 - —
Para-tertiary-butylphenol, bgs., c.l., works lb. .27¼- —
l.c.l., same basis lb. .28½- —
Parathion, spray powder, 15% dealers, tins, works lb. .45 - —
tech., dms., works lb. 1.50 - —
Para-tertiary-amylphenol, ctns., c.l., works lb. .26½- —
l.c.l., works lb. .27½- —
tanks, works lb. .25½- —
Paratoluenesulphonamide, flake, bbls., frt. alld lb. .64 - .66
powd., bbls., works lb. .70 - —
solid, bbls., frt allo lb. .61 - —
Paratoluidin flake, bbls., frt. alld. lb. .64 - —
solid, bbls., frt. alld lb. .60 - .61
Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 96 lbs or over lb. .36 - .40
l.c.l., same basis lb. .37 - .53
Passion flower herb bls lb .25 - .26
Peanut meal, 45%, old proc., sacked mills ton.72.00 - —
solvent, same basis ton.62.50 - —
Pectin, citrous, NF, powd., bbls lb 2.05 - 2.06
tech., powd., bbls lb 1.50 - —
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units .08½- .09
Procaine, bulk, 1,000,000 units .08½- .09
Sodium, sterile, bulk, 1,000,000 units. .08½- .09
Pentachlorophenol, dms., c.l., works, frt. equald lb. .21 - —
l.c.l., same basis lb. .24 - .29
truckload, 20,000 lbs. min. same basis lb. .21¼- —
Pentaerythritol, tech., bgs., c.l., works lb. .34 - —
l.c.l., works lb. .35 - .36
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol)
Pentane, industrial, tanks, Tex. ref'y gal. .14½- —
Pepper, black, Malabar, spot, bgs lb. 1.32 - —
red, Gondar, bgs lb. .22 - .23
Japanese, hontakas, bgs lb. .43 - —
birdseyes, bgs., afloat lb. .70 - .72
Mombasa, bgs., ship't lb. .55 - —
Nigerian, bgs. lb. .33 - .35
Turkish, bgs lb. .31 - —
Zanzibar, bgs lb. .55 - —
white, bgs lb. 1.20 - —


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In many cases, we have been more than a supplier; we have been a confidential partner in the development of pharmaceutical products for established houses. We have earned the confidence of the greatest names in the pharmaceutical industry. This has been a major source of our growth, and one of the great satisfactions of this business. It is our purpose to remain a dependable supplier, ready with the best, purest chemicals available, prepared and refined in every possible way.

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TABLETS
CAPSULES
LIQUIDS

**Phenobarbital USP** (√) Sedative, hypnotic of long duration, antiepileptic and anticonvulsant. FORMS: Fine Crystals, Powder and Powder Minus 100 Mesh.

**Phenobarbital Sodium USP** (√) For the same use as Phenobarbital. Particularly adapted for the preparation of solutions. FORMS: Crystalline and Crystalline Special For Dry Filling.

**Ferrous Sulfate USP** (√) For iron deficiency and the control of associated anemias. FORMS: Exsiccated Powder (for mixing with other ingredients for tableting or capsuling), Crystals and Granular.

**Magnesium Trisilicate USP** (√) Antacid, adsorbent, particularly for peptic ulcers and diarrhea. FORMS: Powder, Bulky and Super Bulky.

**Calcium Gluconate USP** (√) For calcium therapy (less irritating than calcium chloride and may be given intramuscularly or intravenously). FORMS: Powder and For Parenteral Solutions.

**Theophylline USP Monohydrate; Theophylline USP Anhydrous** (√) Diuretic and myocardial stimulant. Used for bronchial asthma and cardiac conditions. FORMS: Monohydrate—Powder; Anhydrous—Powder.

**Vitamins** (√) Thiamine Hydrochloride USP (Vitamin $B_1$) Powder and Special For Parenteral Solutions; Thiamine Mononitrate USP Powder; Acid Ascorbic USP (Vitamin C) Powder, Granular, Fine Granular and Special For Parenteral Solutions; Pyridoxine Hydrochloride (Vitamin $B_6$ Hydrochloride) Crystalline Powder; Niacin USP (Acid Nicotinic) Powder; Niacinamide USP (Nicotinamide) Powder; Riboflavin USP (Vitamin $B_2$) Crystalline Powder; Vitamin $B_{12}$ USP Crystalline Not Sterile; Vitamin $B_{12}$ Solids; and Calcium Pantothenate Dextrorotatory Powder.

**Acetophenetidin USP** (√) Analgesic and antipyretic. FORM: Powder.

**Acid Acetylsalicylic USP** (√) Analgesic and antipyretic. FORMS: Powder 80 Mesh, Crystals 20 Mesh and Crystals 40 Mesh. Also starch mixtures for compounding.

**Salicylates** (√) Antirheumatics. A versatile line of salicylates for all applications.

**Bismuth Salts** (√) Bismuth Subcarbonate USP Powder, Heavy Powder, Light Powder and Extra Light Powder; Bismuth Subgallate NF Powder; Bismuth Subnitrate NF Powder and Heavy Powder; Bismuth Subsalicylate USP Powder and Special Light Powder; plus numerous other bismuth compounds.

**Iodides** (√) Potassium Iodide USP Crystals, Granular and Powder; Sodium Iodide USP; Iodine USP Resublimed Crystals and Granular; Iodoform NF Heavy Powder and Light Powder; Thymol Iodide NF Powder; and many others with one or more forms available.

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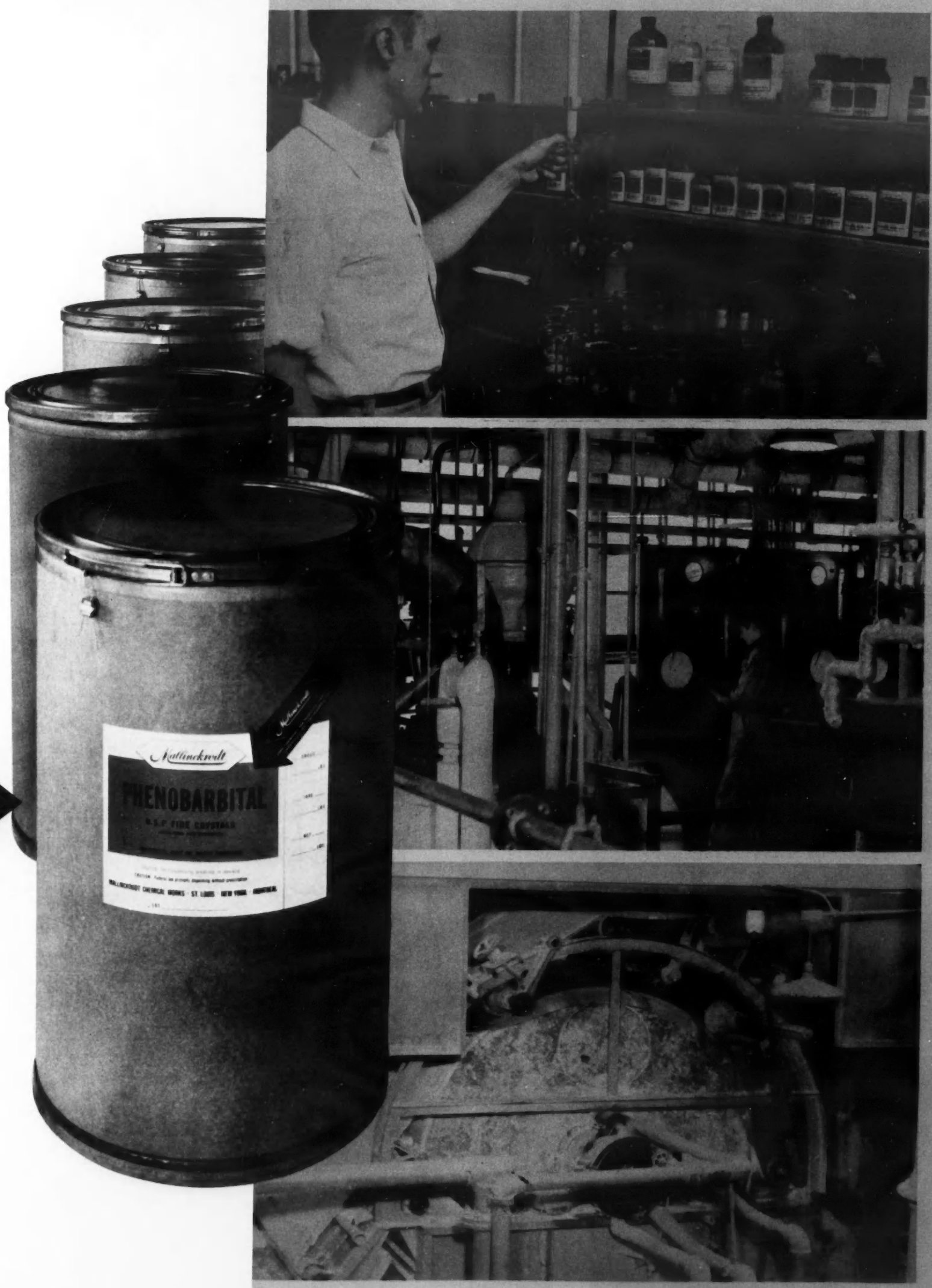


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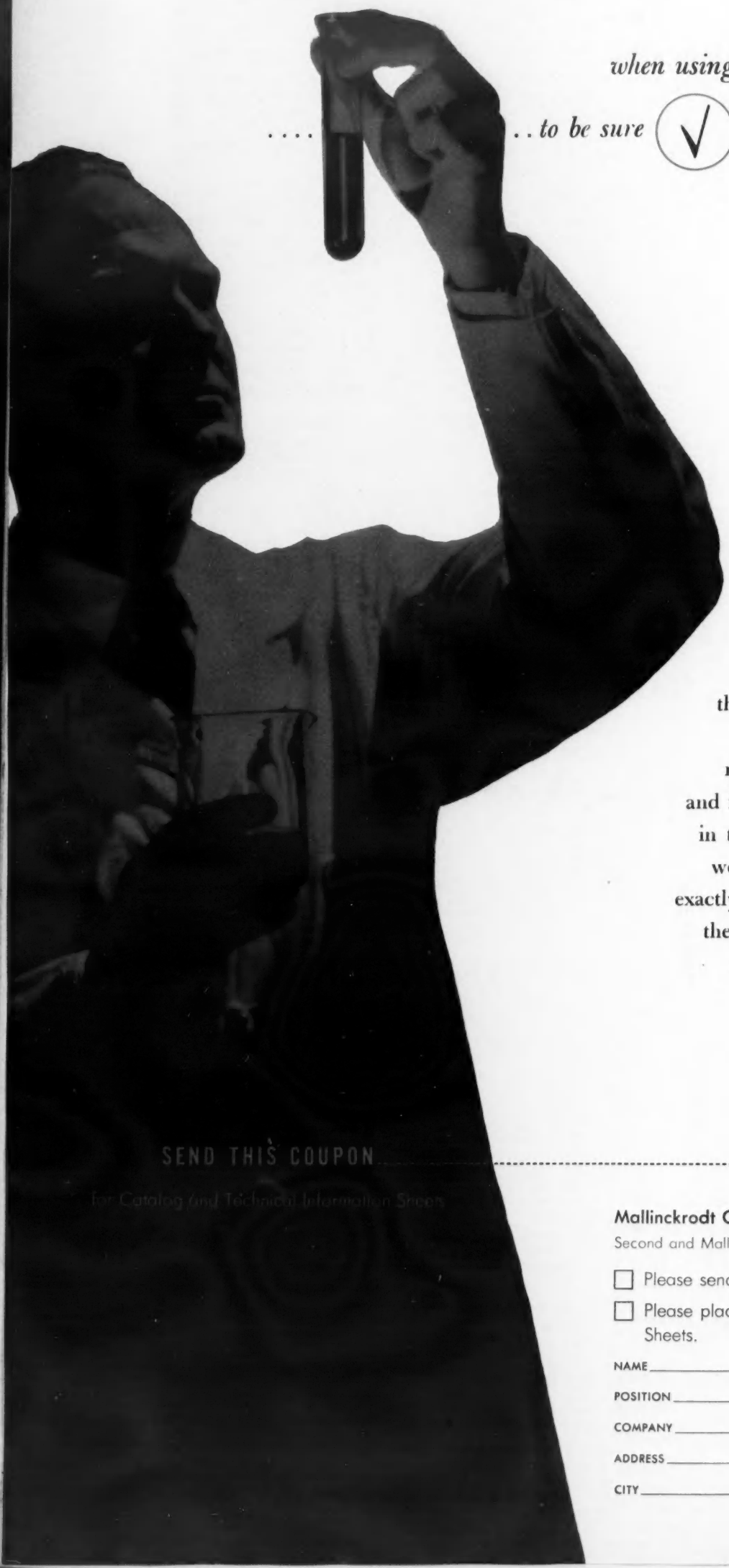

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| | | | |
|---|---|---|---|
| Peppermint leaves, USP, dom., bls., dms. | lb. | .80 | — |
| imported, bls. | lb. | 1.05 | Nom. |
| Pepsin, NF, 1:3,000, bulk | lb. | 2.75 | 3.90 |
| Perchloroethylene, dms. c.l., or truckloads, works | lb. | .11½ | — |
| dlvd., E | lb. | .11½ | — |
| l.c.l., dlvd., ex whse | lb. | .13½ | — |
| dlvd. E | lb. | .13½ | — |
| Peru balsam, dms | lb. | 1.25 | 1.60 |
| Petrolatum, amber, dms., c.l., refy. | lb. | .05 | .05½ |
| l.c.l., dlvd | lb. | .06¾ | .07 |
| tanks, refy | lb. | .03¼ | .04½ |
| cream, dms., c.l., refy | lb. | .06½ | .07½ |
| l.c.l., dlvd | lb. | .08½ | .08¾ |
| tanks, refy | lb. | .04¾ | .05¼ |
| extra, amber, dms., c.l., refy | lb. | .05¼ | .05⅞ |
| l.c.l., dlvd | lb. | .07 | .07¼ |
| tanks, refy | lb. | .03½ | .04⅜ |
| USP, white, lily, dms., c.l., refy | lb. | .06¾ | .07½ |
| l.c.l., dlvd | lb. | .08⅞ | .09⅛ |
| tanks, refy | lb. | .04⅞ | .06 |
| soft, dms., c.l., refy | lb. | .06¾ | .07¾ |
| l.c.l., dlvd | lb. | .08½ | .08¾ |
| tanks, refy | lb. | .05 | .05⅞ |
| snow, dms., c.l., refy | lb. | .07½ | .07¾ |
| l.c.l., dlvd | lb. | .09¾ | .09⅝ |
| tanks, refy | lb. | .05⅝ | .05⅞ |
| yellow, soft, dms., c.l., refy | lb. | .05¼ | .05⅞ |
| l.c.l., dlvd | lb. | .06⅞ | .07¼ |
| tanks, refy | lb. | .03½ | .05⅞ |
| Petroleum, crude, bulk, at wells, California | bbl. | 1.42 | 3.53 |
| Illinois | bbl. | 2.69 | 3.02 |
| Kentucky | bbl. | 2.62 | 3.02 |
| Louisiana-Arkansas | bbl. | 2.38 | 3.23 |
| Montana | bbl. | 1.53 | 2.90 |
| Oklahoma-Kansas | bbl. | 2.48 | 2.90 |
| Penna., lower field | bbl. | 4.04 | — |
| Upper field | bbl. | 4.05 | — |
| Texas, East | bbl. | 2.90 | — |
| Gulf Coast | bbl. | 2.68 | 3.23 |
| North, North-Central | bbl. | 2.48 | 2.90 |
| Panhandle | bbl. | 2.48 | 2.90 |
| West | bbl. | 2.35 | 2.90 |
| Wyoming | bbl. | 1.52 | 2.90 |
| Fuel oil, bunker C, No. 6, deep tanks, West Coast | bbl. | 1.80 | 2.10 |
| East Coast, Baltimore, Md. | bbl. | 2.25 | — |
| Boston, Mass. | bbl. | 2.29 | — |
| Charleston, S. C. | bbl. | 2.20 | — |
| Jacksonville, Fla. | bbl. | 2.17 | 2.18 |
| New York Harbor | bbl. | 2.25 | — |
| Norfolk, Va. | bbl. | 2.23 | 2.26 |
| Philadelphia, Pa. | bbl. | 2.25 | — |
| Portland, Me. | bbl. | 2.29 | — |
| Providence, R. I. | bbl. | 2.28 | — |
| Savannah, Ga. | bbl. | 2.20 | — |
| Diesel, tanks, refy., California | gal. | .1025 | .133 |
| New York | gal. | .1015 | .104 |
| Penna, western | gal. | .1075 | .1125 |
| Furnace, tanks, refinery, Arkansas, No. 2 | gal. | .085 | — |
| No. 3 | gal. | .08125 | — |
| N. Y. Harbor No. 2 | gal. | .0925 | .10 |
| group 3, No. 1 | gal. | .08325 | .08375 |
| No. 2 | gal. | .08 | .0825 |
| No. 3 | gal. | .0775 | .08 |
| range | gal. | .08625 | .09 |
| Pennsylvania, western, No. 1 | gal. | .11 | .1145 |
| No. 2 | gal. | .109 | .1135 |
| No. 3 | gal. | .1105 | .1135 |
| Lacquer diluent, 150°-240° F. b.r., 43°-55°C. m.a.p., tanks, West Coast, ex tax, Los Angeles. | gal. | .183 | — |
| East coast, N. J., N. Y. | gal. | .18 | — |
| Group 3, benzol-type | gal. | .14125 | .14625 |
| toluol-type | gal. | .13125 | .13375 |
| mineral spirits, regular, tanks, California, ex tax, San Francisco | gal. | .174 | — |
| East coast, N. J., N. Y. | gal. | .17 | — |
| Group 3 | gal. | .11875 | — |
| tankwagon, Boston | gal. | .19 | — |
| Buffalo | gal. | .195 | — |
| Chicago | gal. | .279 | — |
| Cleveland | gal. | .22 | — |
| Newark | gal. | .18 | — |
| New York | gal. | .18 | — |
| Philadelphia | gal. | .165 | — |
| Pittsburgh | gal. | .22 | — |
| Providence | gal. | .195 | — |
| specially refined, tanks, refy., Watson, Calif. | gal. | .244 | — |
| Borger, Tex | gal. | .24 | — |
| Houston, Tex. | gal. | .24 | — |
| Wood River, Ill | gal. | .2625 | — |
| tank transport, Carteret, N. J. | gal. | .336 | — |
| tankwagon, N. J., N. Y. | gal. | .37 | — |
| Naphtha, cleaners, tanks, East Coast, N. J. and N. Y. | gal. | 17 | — |
| Group 3 | gal. | .12875 | — |
| tankwagon, Newark | gal. | .18 | — |
| New York | gal. | .18 | — |
| Philadelphia | gal. | .165 | .17 |
| high solvency (see petroleum solvent, partial aromatic). | | | |
| V.M.&P., 225°-300°F. b. r., tanks, West Coast, Los Angeles | gal. | .168 | — |
| Portland, Ore | gal. | .174 | — |
| San Francisco | gal. | .173 | — |
| Seattle, Wash. | gal. | .174 | — |
| East coast, N. J., N. Y. | gal. | .18 | — |
| Group 3 | gal. | .12875 | — |
| tankwagon, Boston | gal. | .205 | — |
| Chicago | gal. | .289 | — |
| Cleveland | gal. | .23 | — |
| Newark | gal. | .195 | — |
| New York | gal. | .195 | — |
| Philadelphia | gal. | .195 | — |
| Pittsburgh | gal. | .21 | — |
| Solvent, partial aromatic, tanks, East Coast, N. J., N. Y., 205° 292°F. b.r., 37° 38°C. m.a.p. | gal. | .26 | .27½ |
| 17°-29°C. m.a.p | gal. | .29 | .32½ |
| 266°-383°F. b.r., 35°C. m.a.p. | gal. | .29 | — |
| 27°-28°C. m.a.p | gal. | .29 | .31 |
| 19°C. m.a.p | gal. | .34 | — |
| 310°-392°F. b.r., 30°-38°C. m.a.p. | gal. | .27 | .32½ |
| 17°-19°C. m.a.p | gal. | .35 | .39 |
| 350°-425°F. b.r., 32°-34°C. m.a.p | gal. | .30½ | .32½ |
| 25°C. m.a.p | gal. | .39½ | — |
| 18°-21°C. m.a.p | gal. | .35 | .43½ |
| rubber, tanks, California, ex tax, San Francisco | gal. | .173 | — |
| East Coast, N. J., N. Y., | gal. | .18 | — |
| Group 3 | gal. | .12875 | — |
| Stoddard, tanks, East Coast, N. J., N. Y | gal. | .17 | — |
| Group 3 | gal. | .12375 | — |
| Pennsylvania, western | gal. | .15 | — |
| tankwagon, Boston | gal. | .19 | — |
| Chicago | gal. | .289 | — |
| Cleveland | gal. | .22 | — |
| Los Angeles, ex tax | gal. | .173 | — |
| Newark | gal. | .18 | — |
| New York | gal. | .18 | — |
| Philadelphia | gal. | .165 | .17 |
| Pittsburgh | gal. | .19 | — |
| Sulphonate, oil soluble, 70%, sulphonic content, non-ret. dms, c.l., works | lb. | .2140 | — |
| l.c.l., works | lb. | .2065 | — |
| tanks, works | lb. | .1850 | — |
| Petroleum sulphonate, oil soluble, 60-62% sulphonic content, non-ret. dms., works | lb. | .175 | .20 |
| l.c.l., works | lb. | .185 | .202 |
| tanks, works | lb. | .145 | .185 |
| 50-55% sulphonic content, non-ret. dms., works | lb. | .155 | — |
| l.c.l., works | lb. | .155 | — |
| tanks, works | lb. | .125 | — |
| Phenobarbital, USP, dms., 100-lb. lots | lb. | 4.00 | — |
| Phenobarbital-sodium, USP, dms., 100-lb. lots | lb. | 4.00 | — |
| Phenol, 90-92% (cresol 8-10%), non-ret. dms., c.l., frt. alld. E. of Rockies | lb. | .17¾ | — |
| l.c.l., same basis | lb. | .18½ | — |
| ret. dms., c.l., same basis | lb. | .17 | — |
| l.c.l., same basis | lb. | .17½ | — |
| tanks, same basis | lb. | .16 | — |
| 82-84% (cresol 16-18%), non-ret., drums, c.l., same basis | lb. | .17¼ | — |
| l.c.l., same basis | lb. | .18 | — |
| ret., dms., c.l., same basis | lb. | .16½ | — |
| l.c.l., same basis | lb. | .17 | — |
| tanks, same basis | lb. | .15½ | — |
| 39° or above, tar distilled, non-ret. dms., c.l., same basis | lb. | .19¼ | — |
| l.c.l., same basis | lb. | .20 | — |
| ret. dms., c.l., same basis | lb. | .19 | — |
| l.c.l., same basis | lb. | .19½ | — |
| tanks, same basis | lb. | .17½ | .18 |
| USP, synthetic, dms., c.l., same basis | lb. | .19¾ | — |
| l.c.l., same basis | lb. | .20½ | — |
| tanks, same basis | lb. | .18 | — |
| Phenolphthalein, USP, or yellow bbls., dms., 2,000-lb. lots | lb | 1.10 | — |
| smaller lots | lb. | 1.12 | 1.17 |
| Phenothiazin, NF, fib. dms., c.l., frt. adjusted | lb. | .50 | — |
| over 2,100 lbs., same basis | lb. | .52 | — |
| less than 2,100 lbs., same basis. | lb. | .54 | — |
| Phenyl acetate, dms., 100-lb. lots, works | lb. | .50 | — |
| Salicylate (see Salol) | | | |
| Phenylacetaldehyde solution, 50%, bots | lb | 2.40 | 2.70 |
| 100%, bots | lb. | 4.00 | 4.65 |
| Phenylacetamide 125-lb dms. works. | lb. | 1.10 | — |
| smaller dms., works | lb. | 1.15 | 1.10 |
| Phenylalanine, dextro-laevo, dms., works | lb. | 27.00 | 37.50 |
| Phenylcarbethoxy pyrazolone, 250-lb. fib dms., dlvd. E | lb | 3.60 | — |
| smaller dms., dlvd. E | lb. | 4.00 | — |
| Phenyldiethanolamine, dms., c.l., dlvd E. | lb. | .40 | — |
| l.c.l., dlvd. E | lb. | .41 | — |
| Phenylethanolamine, dms., c.l., works | lb. | .69½ | — |
| l.c.l., same basis | lb. | .70 | — |
| Phenylethyl acetate, bots. | | 1.35 | 1.95 |
| Phenylethylphenyl acetate, bots | lb. | 3.95 | 4.40 |
| Phenylhydrazin base, CP bots | lb | 3.00 | 3.07 |
| Hydrochloride commercial, kgs., works | lb | 4.75 | — |
| purified, bots., works | lb. | 5.17 | — |
| Phenylmethylpyrazolone (see Methylphenylpyrazolone). | | | |
| Phloroglucinol, coml., fib dms., works | lb | 6.40 | — |
| C.P., bots, fib. dms | lb | 17.00 | 17.25 |
| tech, fib dms works | lb | 10.45 | — |
| Phosgene 150-lb cyls works | lb | 27½ | — |
| Phosphate defluorinated (see under D) | | | |
| Phosphate rock, Curacao, Atlantic ports | ton | 45.00 | — |
| Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 70-68%, b.p.l., c.l., same basis, long-ton. | | 4.68½ | — |
| 72-70%, b.p.l. c.l. same basis, long-ton. | | 5.68½ | — |
| 75%-74%, b.p.l., c.l., same basis, long-ton. | | 6.68½ | — |
| 77% 78% b.p.l. c.l. same basis long-ton. | | 7.68 | — |
| finely ground, 65%, b.p.l., basis 30% $P_2O_5$, minimum, bulk, c.l., mines, short-ton | | 5.60 | — |
| 68% b.p.l. basis 31%$P_2O_5$, minimum, mines, short ton. | | 5.80 | — |
| 70%, b.p.l. basis 32% $P_2O_5$, minimum, mines, short-ton. | | 6.15½ | — |
| plus or minus usual bonus adjustment clause for oil and labor Prices on entirely pebble 50c per long ton higher | | | |
| Phosphorus red amorphous cs. | lb | 46 | 47 |
| dms | lb | 44 | 45 |
| yellow, cns., works | lb | .48 | .50 |
| dms., c.l., works | lb | 40 | — |
| l.c.l. works | lb | 43 | — |
| Oxychloride dms., c.l., works | lb | .14 | — |
| l.c.l. dms., works | lb | .17 | — |
| tankcars, works | lb. | .12½ | — |
| Pentasulphide, solid, dms., c.l., works | lb. | .11½ | — |
| l.c.l., dms., works | lb. | .13 | .13¼ |
| Pentoxide, dms., c.l., works | lb. | .13½ | — |
| l.c.l., works | lb. | .16½ | — |
| Sesquisulphide, tins, cs., works | lb. | .29 | — |
| export, dms. | lb. | .31 | .38 |

Cowboy Junior and his paint horse will be chasing badmen across the plains for many years before his favorite mount loses its complexion.

Little "short-in-the-saddle" likes his colors dashing, and he gives his rocking mount a beating. That's why its painted hide has to be tough.

In coatings like these TITANOX white pigments play an important part . . . whether Junior's preference is bay, dapple gray or roan. And if he should leave his steed outdoors, the chalking resistant TITANOX pigments will help protect its hide from the weather.

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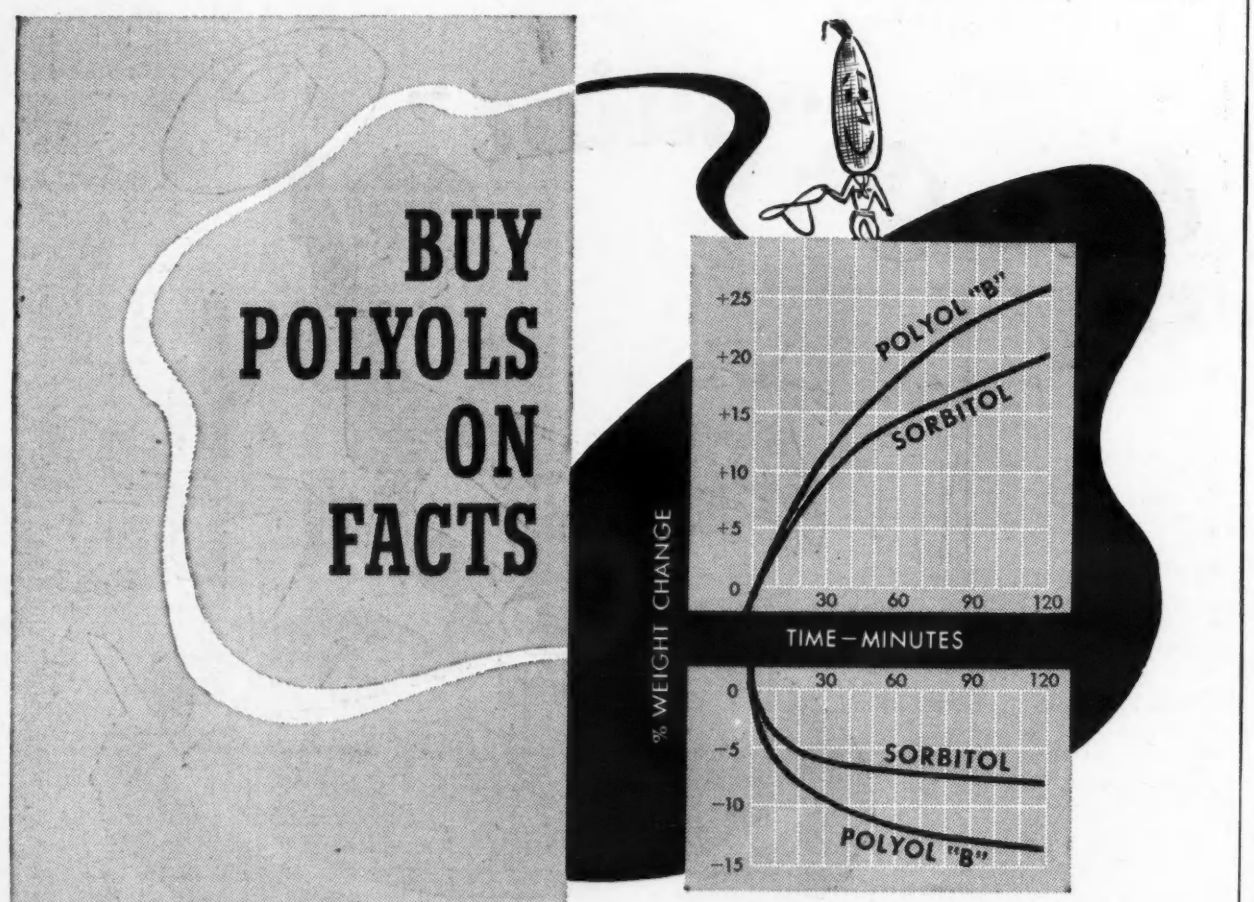
*Subsidiary of* NATIONAL LEAD COMPANY

## Phosphorus Trichloride—Pyrethrum Flowers, Liquid

Phosphorus trichloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .17 - —
tankcars, works lb. .12½- —
Phthalic anhydride, dms., c.l., works frt equald lb. .22 - —
l.c.l., same basis lb. .23 - —
tanks same basis lb. .21½- —
Phthalimide, 97%-98% . dms works, frt. alld lb. .65 - .70
Phthalylsulphacetamide, fiber dms., lb. 5.00 - 5.50
Picoline (See Alpha, Beta and Gamma Picoline)
Pilocarpine hydrochloride, NF, bots or oz 5.25 - —
Nitrate, USP, bots., vials oz. 5.10 - 5.20
Pimento Guatemala, bgs lb. .20 Nom.
Jamaica, bgs. lb. .28 - .29
Mexican, bgs lb. .23 - .23½
Pinetar retort dms. incl. c.l., works gal. .44 - —
l.c.l., works gal. .50½- —
tanks, bulk, works gal. .35 - —
Pinkroot, bls lb. 2.50 - 2.90
Piperazine hexahydrate, French Codex dextro, bots kilo. 8.00 - 8.50
Piperidine, 98%, dms., frt. equald. lb. 2.90 - 3.00
Piperonyl butoxide dms, dlvd & lb 5.00 5.30
Cyclonene dms. dlvd E lb 4.20 4.50
Pipsissawa herb (see Prince's pine)
Pitch, burgundy domestic dms. mc. c.l. l.c.l. works 100 lbs 9.80 -10.25
Coaltar, 140° 150° F., m.p., dms., c.l., works ton.41.20 -42.09
Cottonseed dms. works lb. .02¼- .03
Hardwood, paper bgs., c.l., works. lb. .02 - —
Pitch, linseed, dms. lb. .06 Nom.
Petroleum (see Asphalt, petroleum).
Pine, dms., incl., l.c.l., works, South 100 lbs. 8.25 - —
Soybean, dms., works lb. .05 Nom.
Tall, dms., works lb. .0290- .04½
Plaster of Paris (see Gypsum).
Platinum metal, works oz.93.00 - —
Pleurisy root, bls lb. .45 - .50
Podophyllum resin, NF, dms lb. 9.00 -11.00
Pokeroot, bls lb. .19 - .22
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .43 - —
10,000-20,000-lb. lots, works. lb. .45 - —
smaller lots, works lb. .48 - .50
Tristearate, dms., 20,000-lb. lots, works lb. .43 - —
10,000-20,000-lb. lots, works, smaller lots, works lb. .48 - .50
Polystyrene, colors, special, bgs., over 20,000 lbs., frt. alld. lb. .35½- .36
10,000-19,999-lb. lots, same basis lb. .36 - .36½
5,000-9,999-lb. lots, same basis. lb. .36½- —
standard, bgs lb. .35½- .36
crystals, heat-resistant, bgs., c.l. lb. .34 - —
l.c.l. lb. .34½- —
standard, bgs., c.l. lb. .32½- —
l.c.l. lb. .33 - —
Polystyrene in non-returnable fib., dms., ½c. per lb. higher.
Poppy seed, Dutch, bgs. lb. .17 - .17¼
Polish, bgs lb. .15½- .16
Turkish, bgs lb. .13 - .14
Potash, caustic, regular, flake, 88-92%, dms., c.l., works. 100 lbs. 9.15 - —
l.c.l., works 100 lbs.10.20 - —
liquid, 45% basis, dms., c.l., works 100 lbs. 4.23 - —
l.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
solid, 88-92% dms., c.l., works 100 lbs. 8.70 - —
l.c.l., same basis, works. 100 lbs. 9.75 - —
Potassium abietate, dms., works lb. .25 - .28
Acetate, NF, dms lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd., dms. lb. .24 - —
Bichromate, bgs., c.l., works lb. .15 - —
l.c.l. same basis lb. .15½- .16¾
Potassium bichromate in drums ¾c. higher.
Bitartrate (see Cream of tartar).
Bromate, bbls., 1,000 lbs. or more. lb. .50 - .52
25-200-lb. lots lb. .55 - .57
Bromide, USP, gran., bbls., kgs. lb. .34 - —
Carbonate, tech., calcined, bbls., c.l., works 100 lbs. 9.00 - —
l.c.l., same basis 100 lbs.10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
USP, gran., bbls., dms lb. .16½- .18
powd., bbls., dms lb. .21 - .23
Chlorate, cryst., dms., c.l., works. lb. .10¼- —
l.c.l., works lb. .11½- .12
powd., dms., c.l., works lb. .10¾- —
l.c.l. works lb. .12 - 12½
export, dms., New York lb. .12¾- .13½
NF, gran., dms lb. .34 - .35

Potassium chloride, USP, cryst., dms. lb. .21 - .23
gran., dms lb. .15 - .17
powd., dms lb. .24 - .26
Chromate, tech., bgs lb. .33½- .36
Citrate, USP, gran., dms lb. .41 - —
powder, dms lb. .40½- .41½
Cyanide, dms., 500-lb. lots or more, works lb. .55 - —
smaller lots, works lb. .57 - —
Fluoborate, fib. dms., c.l., works lb. .30 - —
l.c.l., works lb. .31 - —
Fluoride, dms., works lb. .32 - —
Gluconate, dms lb. .75 - .79
Glycerophosphate, 75% solution cbys. lb. 2.15 - 2.25
Guaiacsulphonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms. 1 to 100-dm. lots lb. .28½- .33
Hypophosphite, NF, ton lots or less, fib. dms lb. 1.00 1.03
Iodine, dms lb. 2.15 - —
Manure salt, 22% $K_2O$, bulk, mines unit-ton. .21 - —
Metabisulphate, gran., dms lb. .20 - .21
powd., dms lb. .25 - —
Muriate, dom. 50-60% $K_2O$, bulk, Carlsbad, N. M. unit-ton. .43 - —
Trona, Cal. unit-ton. .53 - —
50-51% $K_2O$, paper bgs., Carlsbad, N. M. ton.25.75 - —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 - .32
Pentaborate, gran., bgs., c.l., works ton.184.00 - —
bbls., ton lots, ex whse ton.261.00 - —
smaller lots, bbls., ex whse. ton.266.00 - —
Powdered Potassium pentoborate, $10.25 per ton higher
Perchlorate, dms., c.l., works lb. .15 - —
l.c.l., works lb. .20 - .22
Permanganate, tech., dms., works. lb. .22½- .23¼
USP dms. works lb. .24¾- .30¼
Persulphate, dms., c.l., works lb. .18 - .19
l.c.l., works lb. .20 - .22
Phosphate, tetrabasic, bbls., works lb. .16½- .18½
Prussiate, red, kgs lb. .60 - .62
yellow, dms., ton lots lb. .22½- —
smaller lots lb. .23 - —
kegs lb. .28 - —
Silicate, glass, bgs., c.l., works. 100 lbs.17.00 - —
l.c.l. 100 lbs.17.80 - —
solution, clarified, 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 - —
l.c.l., 5 dms., or more, works 100 lbs. 6.55 - —
tanks, works 100 lbs. 5.45 - —
tech., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 6.50 - —
l.c.l., 5 dms. or more, works 100 lbs. 7.00 - —
tanks, works 100 lbs. 7.00 - —
40.5° Be., 1:2.0, dms., c.l., works 100 lbs. 6.45 - —
l.c.l., 5 dms. or more, works 100 lbs. 7.20 - 7.30
tanks, works 100 lbs. 6.10 - 6.15
Silicofluoride, bbls., works lb. .09 - .10
Stannate, dms., frt. alld., E lb. .639 - .705
Sulphate, agricultural, 49-51%, $K_2O$, bulk, works ton.37.25 - —
NF VIii cryst. dms lb. .31 - .33
gran. dms lb. .18½- —
powder dms lb. .16½- .17
Sulphocyanide, NF, cryst. (see Potassium thiocyanate)
Thiocyanate, NF, cryst, dms. lb. .85 - .94
tech., works lb. .77 - .79
Titanate, ctrs., c.l., works lb. .14 - —
5-ton lots, works lb. .14½- —
1-ton lot or less, works lb. .14¾- —
Potassium-magnesium sulphate bulk, works basis 40% $K_2SO_4$, 18% MgO ton.16.00 - —
Potassium-sodium tartrate (see Rochelle salt)
Potassium-titanium fluoride, fib. dms., works lb. .39 - .40
Oxalate, bbls., dms lb. .85 - .95
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
l.c.l., works lb. .52½- .55
Progesterone, USP, bots., 100-gr. lots, gm. .79 - —
Acetate, bots. gm. .70 - —
Procaine hydrochloride, USP, dms., frt. alld lb. 3.10 - 3.40
Propane, commercial grade tanks, group 3 gal. .04 - —
Propyl acetate, normal, dms. c.l., dlvd. lb. .12¾- —
l.c.l., dlvd. lb. .13¾- —
tanks, dlvd lb. .10½- —
Aldehyde (see Propionaldehyde).
Gallate, dms., 100 to 2,000-lb. lots, works lb. 3.90 - 4.40
Parahydroxybenzoate, USP, dms lb. 2.30 - 2.40
Propylene dichloride, dms., c.l., dlvd. E lb. .0845- .095
l.c.l., same basis lb. .0950- .1050
tanks, same basis lb. .07 - .08
Oxide, dms., c.l., dlvd. E lb. .19½- .20½
l.c.l. dlvd E lb. .20½- .21½
tanks, dlvd E lb. .17½- .18½
Propyleneglycol, industrial, dms., c.l., dlvd. E lb. .19¼- .21¼
l.c.l. same basis lb. .20¼- .22¼
tanks, same basis lb. .17½- .18½
USP, dms., c.l., dlvd. E lb. .20¼- .21½
l.c.l., same basis lb. .21¼- .22¼
tanks, same basis lb. .18½- .19½
Methylether, dms., c.l., dlvd. E lb. .20 - —
l.c.l. same basis lb. .21 - —
tanks, same basis lb. .18½- —
Propylthiouracil, bots., 50-kilo lots or more kilo.55.00 - —
smaller lots kilo.55.10 -55.30
Psyllium seed, black, bgs lb. .26 - .27
blonde, bgs. lb. .17 - .18
husks, bgs lb. .45 - .47
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03½- .04¼
smaller lots lb. .03½- .04½
imported, Italian, silk-screen, coarse, bags, ton lots lb. .06½- —
fine, bgs. ton lots lb. .04 - —
sun dried, coarse, bgs ton lots lb. .02½- .04
fine, bgs., ton lots lb. .02½- .04
Pumice in bbls is ½c. per lb higher.
Pumpkin seed bgs lb. .18 - .20
Pyrethrin, synthetic (see Allethrin).
Pyrethrum flowers, fine grd. 0.9% pyrethrins bbls works. lb. .50 - —
powder 1.3% pyrethrins, bbls., works lb. .71½- —
liquid (20 to 1) basis 2 grams pyrethrins per 100cc. odorless base, bbls., works gal. 9.75 -10.50
(30 to 1) basis 3 grams pyrethrins per 100 cc. odorless base, bbls., works gal.15.75 - —


## $orbitol keeps products "fresher" longer...

As shown by the graphs, sorbitol picks up moisture at a slower rate at high humidities (upper chart) and dries out more slowly at low humidities (lower chart). Moreover, sorbitol has an exceptionally narrow humectant range, which means that it gains or loses less moisture when transferred from one humidity extreme to the other. All of which adds up to greater protection for the "factory-freshness" of products containing sorbitol... pharmaceuticals, cosmetics, foods, cork products, glue specialties or tobacco products, to name a few.

## ...at lower cost

In the face of general inflation, the price of sorbitol has dropped continually since 1947 . . . while other polyols have fluctuated widely. This remarkable record has been accomplished through continued expansion and refinement of Atlas manufacturing facilities.

### COMPARE ALL FOUR POLYOLS

before you buy . . . and choose the one that proves superior on *every* count. To aid in your selection, Atlas offers full technical information on sorbitol and expert engineering service to help you utilize sorbitol's unique characteristics in your product.

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Pyrethrum flowers, oleoresin, dewaxed, 20%, for areosol bombs, dms., works lb. 11.00 -12.00
Pyridin, denaturing, dms., c.l., works and frt. equald gal. 2.77 - —
l.c.l., same basis gal. 2.80 - —
refd., 2° non-ret. dms., l.c.l., same basis lb. 1.15 - —
Pyridoxine hydrochloride, bots., 100-gm. lots gm. .55 - —
Pyrites, Canadian, works long-ton. 3.00 - 5.00
Pyrocatechol (see Catechol)
Pyrogallol NF lb 3 25 3 43
Pyrophyllite, insecticide grade 200 mesh bgs c.l. mines ton 13 00 -13 50
No. 3, 200 mesh, bulk, c.l. mines ton 11 00 —
rubber grade 140 mesh bgs. c.l. mines ton 11 50 -12 00
standard, 200 mesh, bulk, c.l., mines ton. 12.50 - —
230 mesh, bulk, c.l., mines ton. 13.50 - —
325 mesh, bulk, c.l., mines ton. 16.75 —
Standard and No. 3 pyrophyllite in paper bgs. $3 to $3 50 per ton extra
Pyroxylin scrap, opaque, amber, dms., works lb. .13 - —
black, dms., works lb. .12 - —
mixed, mottled, dms., works. lb. .11 - —
white, china, ivory, dms., works lb. .12 - .15
dense dms., works lb. .12 .15
translucent pastels, cs., works lb. .14 - —
transparent, colorless, dms., works lb. .25 - —
colors, dms., works lb. .14 - —
shavings, opaque, amber, cs., works lb. .11 - —
mixed colors, dms., works. lb. .11 - —
USP, bots. lb 9 50 - —

## Q

Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., lb. .16½- .16¾
liquid, 35% tannin bbls., works, tanks, same basis lb. .08¼- —
solid, clarif., 64% tannin, bgs., c.l., exdock, duty extra lb. .12⅞- —
ordinary 63% tannin, bgs., c.l. same basis lb. .11 31 64 —
Quebracho extract prices are based on $20 40 freight and $1 insurance per long ton.
Quercitron extract, crystals, No 1, bbls., l.c.l. lb. .40 - —
liquid, No 1, bbls., l.c.l. lb .19 - —
Quicksilver flasks (76 lbs. net) flask 184.00 -186.00
Quinidine NF V cryst., cns., 100-oz. lots oz. 1.15 - —
powd. precip. cns., 100-oz. lots oz. 1.17 - —
Sulphate USP, cns., 100-oz. lots oz. .87 - —
Quinine, NF, cns., 100-oz. lots oz. .54 - —
Bisulphate, USP, cns., 100-oz. lots oz. .37½- —
Dihydrochloride USP cns oz. .54 - —
Quinine ethylcarbonate, NF, cns., 100-oz. lots oz. .63½- —
Hydrobromide, NF cns. 50-oz. cns. oz. .47½- —
Hydrochloride, USP, cns., 100-oz. lots oz. .47½- —
Phosphate NF, cns., 100-oz. lots oz. .61 - —
Salicylate, NF, cns., 100-oz. lots oz. .55 - —
Sulphate, USP, cns., 100-oz. lots oz. .42 - —
Quinine and Urea hydrochloride, NF, cans oz. .56 - —
Quinolin, dms., c.l., frt. equald lb. .50¾- —
l.c.l., same basis lb. .51¼- —
tanks, same basis lb. .50 - —

## R

R salt, paste, 100% basis, dms., frt. alld lb. .83 - —
powd., basis 100%, frt. alld lb. .88 - .93
Red, BON acid maroons, pure, bbls. lb. 1.75 - —
resinated, bbls lb. 1.50 - —
arylid, deep shades, bbls. lb. 3.60 - —
light shades, bbls. lb. 2.75 - —
maroon, bbls lb. 3.60 - 5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb. 4.30 - —
light shade, same basis lb 4.00 - —
medium shade, bbls., same basis lb. 4.25 - —
medium-light shade, bbls., same basis lb 4.05 - —
orange shade, bbls., same basis lb. NP - —
lithopone, deep shade, bbls., same basis lb. 1.93 - —
light shade, bbls, same basis, lb. 1.70 - —
maroon shade, bbls., same basis lb. 2.05 - —
medium shade, bbls., same basis lb. 1.85 - —
medium-light shade, bbls., same basis lb. 1.77 - —
orange red shade, bbls., same basis lb. 1.64 - —
Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c per lb higher ex whse. Los Angeles and San Francisco.
Carmine No 40 (see Carmine).
Dyes (see Dyes coaltar).
Eosin toner, bbls., works lb. 1.60 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y. lb. .12¾- —
Iron oxide, pure, 98% ferric oxide, bgs., c.l., works lb. .12¾- —
l.c.l., works lb. .13 - —
natural, 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa.; Copley, O.; Easton, Pa.; E. St. Louis lb. .06 - —
Lake C, toner, alizarin, bbls., works lb. 1.10 - 1.20
Lithol, toner, bbls., works lb. .79 - —
rubine toner, pure, bbls., works lb. 1.50 - —
resinated, bbls., works lb. 1.40 - —
Virginia-type, bbls., works lb. 1.40 - —
Maroon toner, MNPT, kgs., works. lb. 3.60 - —
10,000-lb. lots, works lb. 4.22 - —
smaller lots, works lb. 4.24 - —
Metallic, bbls., c.l., works lb. .02½- —
l.c.l. works lb. .02¾- —
Oxide (see Red iron oxide).
Persian gulf, bgs., c.l., works lb. .06¾- —
l.c.l., works lb. .07 - —
Para toner, bbls lb. .95 - —
Chlorinated, kgs lb. 1.10 - 1.15
Phloxin toner (see Red eosin toner).
Rhodamine, molybdated, PMA, kegs lb. 5.35 - —
tungstated, PTMA, works, kegs, lb. 6.35 - —
Spanish, oxide, bbls., c.l., ex dock lb. .05¾- —
l.c.l., ex dock lb. .06 - —
ex whse., New York lb. .06½- —
Toluidin toner, deep shades, kgs., works lb. 1.50 - —
light shades, kgs., works lb. 1.50 - —
Turkey, bbls., works lb. .60 - —
Tuscan, bbls., frt. equald lb. .24½- .25
Red, venetian, 15%, bgs., works lb. .0350- .037
30%, bgs., works lb. .0475- —
25%, bgs., works lb. .0525- —
30%, bgs., works lb. .0550- —
35%, bgs., works lb. .0575- —
40%, bgs., works lb. .0625- —
Vermilion Amer bbls lb 32 - —
Quicksilver, ctns. lb. 3.52 - —
Watchung-type bbls. lb 1 95 —
Red KB base (see Chloro (4-2-amino-toluene).
Red precipitate, NF powd fib dms lb. 4.37 4 41
Red saunders, NF, powd., bbls lb. .35 - .40
Rennin, NF, powder lb 6.25 - —
Resorcinol, tech grade, dms., c.l., works lb. 77½- —
l.c.l., works lb. 78½- —
USP, cryst, dms works lb 2.75 - —
powd., dms., works lb 2.95 - —
Monoacetate NF dms. lb 3 25 3 45
Rhatany root, bgs lb. .15 .16
Rhodinol, 5-lb. cans lb. 30 00 -56 00
Rhubarb root China whole, cs lb. .65 .85
powd., bbls lb. .75 .90
India, whole, bgs lb. .30 .35
powdered, bbls. lb. .38 .40
Riboflavin USP bots., dlvd kilo 100.00 —
readily soluble, bots dlvd kilo 100 00 —
Rice bran concentrate dms Cedartown, Ga lb. .79 - —
Rochelle salt USP gran powd., dms., c.l. lb. .32½ —
5,000-lb lots, dms., c.l lb. .32½ —
smaller lots lb .33½ .38½
Rosin, gum and wood (see Naval Stores Protective Coatings market)
Rotenone, CP bbls, works lb 20 00 —
tech, bbls works lb 16 50 —
Rottenstone (see Tripoli)

## Pyrethrum Flowers, Oleoresin—Shellac, Bleached, Bonedry

Rutin, NF, fib, dms., 25-kilo lots. kilo 25.00 - —
10 to 25-kilo lots, fib, dms. kilo 25.00 -30.00
1 to 10-kilo lots, fib, dms kilo 30.00 —
Ryania, bgs., 100% powd., works lb. .20 - —

## S

Sabadilla seed, powd., bbls lb. .49 - 49½
activated ground with lime bbls lb. .35 .36
Saccharin USP gran, soluble dms. 1000 lb lots lb 1 60 —
smaller lots lb 1 70 1 80
powd, soluble insoluble dms. 1000 lb lots lb 1 65 —
smaller lots lb 1 75 1 95
Safrol dms lb. 72 1 20
Sago flour, raw, bgs lb. .07¼- .07½
refined, bgs lb. .08¾- .03¼
Sal soda (see Soda sal)
Powdered salol 25c higher
Salol NF gran, bbls., kgs. lb 1 10 - —
Salt, rock, paper bgs c.l 100 lbs. 95 - —
Table, vacuum common fine, paper bgs c.l 100 lbs 1 12 - —
Saltcake dom bulk works 100% Na2SO basis ton 19 00 - —
Saltpeter cryst bbls 10-ton lots 100 lbs 14 40 —
smaller lots 100 lbs 14 65 14 90
powd, bbls 20-ton lots 100 lbs 10 75 —
smaller lots 100 lbs 12 00 12 50
gran., bbls., 20-ton lots. 100 lbs. 9.75 —
smaller lots 100 lbs 11 10 11 50
NF, gran., dms lb .09¾ .11¾
Saltpeter in bags, 50c. per 100 lbs less; in kegs $1 more

Sandalwood chips East Indies, bgs. lb 65 66
powd., dms lb 75 76
Sanguinarine nitrate, bots oz 4 75 5 50
Santonin, NF, dom, cryst., powd., dms., cns lb 76.50 -80 00
imported cryst, powd, cns lb 76 50 -80 00
Saponin, No. 1, 100-lb. dms. lb. 2.75 —
Sarsaparilla root, dom bls lb 45 50
Honduras bls lb 38 40
Mexican, bls. lb 25 28
Sassafras root bark, ord., bls lb. .45 - .48
select., bls lb. .60 - —
Schaeffer's salt, paste 100% basis, dms., frt. alld lb. 85 .95
powder, bgs., frt. alld lb. .93 - —
Scopolamine hydrobromide USP bots oz 13 00 14 50
Seidlitz mixture, bbls., 5,000-lb. lots lb. .30½ —
smaller lots lb 31 32
Selenium powd dms dlvd lb 4 25 4 75
Senega root, bls lb. 2 05 - 2 25
Serpentaria root, bls lb 4 75 5 00
Sesame seed Nicaragua hull bgs lb. .20 - .22
natural, bgs lb. .20½ - .21½
Turkish, bgs lb 15 Nom.
Shellac, bleached, bonedry, bgs. 1,500-lb. lots lb. .47 - —
bbls., 1,500-lb. lots lb. .48 - —
kgs., 1,500-lb. lots lb. .50 - —
refined, bgs., 1,500-lb. lots lb .57 - —
bb's., 1,500-lb. lots lb. .58 - —
kgs., 1,500-lb. lots lb. .60 - —
Bonedry shellac prices for less than 1,500-lb lots 1c per lb higher for all packages.

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High Grade Muriate of Potash!
DUVAL SULPHUR and POTASH CO.
Modern New Plant and Refinery at Carlsbad, New Mexico
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ATLANTA, GEORGIA
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CHARLESTON, S. C. • TAMPA, FLA. • JACKSON, MISS. • COLUMBUS

## Shellac, Lemon—Sodium Phosphate, Monobasic

Shellac, lemon, No. 1, bgs., 10-bg. lots lb. .39 - .40
No. 2, bgs., 10-bg. lots lb. .37 - .39
Superfine, bgs., 10-bg. lots lb. .35 - .36
TN, bgs., 10-bg. lots lb. .34 - —
Shellac in 1 to 9 bg. lots, 1c. more

Shingle stain oil (see Oil, shingle stain).

Silica, amorph., dry grd., 325 mesh, bgs., c.l., lil., works ton 25 00 - —
t.c.l., works ton 30 00 -40 00
hard-quartz, 99½, 325 mesh, bgs., c.l., works ton 20 00 —
t.c.l., works ton 25 00 -30 00
140 mesh, bgs., c.l., works ton 15 00 - —
t.c.l., works ton 20 00 - —

Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
t.c.l., works lb. .20 - .28½

Silver bullion, ingots, cs fb. .85¼- —
Cyanide fib dms., 2,500-oz lots oz. 77¾- —
1,000-oz. lots oz. 77¾- —
500-oz. lots oz. 77⅞- —
100-oz. lots oz. 78⅛- —
Nitrate, CP, crystals, bots., 2,500-oz. lots oz. .54¾- —
1,000-oz. lots oz. .56 - —
500-oz. lots oz. .56½- —
250-oz. lots oz. .57 - —
USP granular silver nitrate, 4c. per oz higher
Proteinate, mild USP, bots., dms., 1,000-oz. lots oz. 1.03 - —
strong, NF, bots., dms., 1,000-oz. lots oz. 1.00 - —

Skullcap herb, Eastern, bls lb. .50 - .65
Western, bls lb .30 .35

Slate flour, bgs., c.l., works ton 9.55 -13.00
t.c.l., ex whse ton 21.00 -27.35

Smalt, black, ctns lb. .15 - —
Blue, ctns lb. .18 - —

Soapbark, bls. lb. .22 - .24
crushed, bls., bbls. lb. .27 - .29
powd., bbls. lb. .30 - .35

Soda ash, dense, 58% paper bgs., c.l., works 100 lbs. 1.75 - —
t.c.l., stock points 100 lbs. 2.85 - 4.62
bbls. c.l., works 100 lbs. 2.30 - —
t.c.l., stock points 100 lbs. 3.35 - 4.12
bulk, c.l., works 100 lbs. 1.45 - —
light, 58% paper bgs., c.l., works 100 lbs. 1.65 - —
t.c.l. stock points 100 lbs. 2.75 - 4.52
bbls. c.l., works 100 lbs. 2.20 - —
t.c.l. stock points 100 lbs. 3.25 - 5.02
bulk, c.l., works 100 lbs. 1.35 - —

Soda, caustic, flake, powd., 76%, dms., c.l., works, frt. equald. 100 lbs. 4.10 - —
t.c.l., stock points 100 lbs. 5.30 - —
liquid, 50%, sellers' tanks, works, dry basis 100 lbs. 2.55 - —
rayon-type tanks works, dry basis 100 lbs 2.65 - —
70% sellers' tanks, works, dry basis 100 lbs. 2.65 - —
rayon type, tanks, works, dry basis 100 lbs. 2.75 - —
solid, 76%, dms, c.l., works 100 lbs. 3.70 - —
t.c.l., stock points 100 lbs. 4.90 - —
Sal, bgs, c.l., works 100 lbs. 1.40 - —
t.c.l. works 100 lbs. 1.70 - —

Soda-lime, USP, dms lb. .23 - .25

Sodium acetate, anhyd., bgs., c.l., works lb. .12 - —
t.c.l., dms lb. .12¾- —
NF, gran., dms., works lb. .10 - .16½

Sodium alginate, refined, bbls., works lb. .83 - —
NF, white, powd., dms., ton lots, works lb. .87 - 1.30

Antimoniate, bbls., c.l., dlvd. E lb. .27½- —
t.c.l., dlvd. E lb. .29 - —

Arsenate, dms., c.l., works lb. .12½- —
t.c.l., dms., works lb. .13¾- .14⅛

Arsenite, dms., c.l., works lb. .13½- —
t.c.l., dms. works lb. .14¼- .15⅛
solution, dms., works gal. .70 - 1.10

Ascorbate, dms., 25-50 kilo lots kilo. 21.00 - —
10-kilo lots kilo. 21.35 - —
5-kilo lots kilo. 21.75 - —
1-kilo lots kilo. 22.00 - —
500-gram lots, bots kilo. 22.50 - —

Benzoate, tech., bbls., dms., 100-lb. lots or more lb. .39 - —
USP, bbls., dms. 100-lb. lots, or more lb. .46 - —

Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.70 - —
t.c.l., works 100 lbs. 3.70 - —
powd., bgs., c.l., works 100 lbs. 2.30 - —
t.c.l., works 100 lbs. 3.30 - —

Bichromate, bgs., c.l., works lb. .11½- —
t.c.l., same basis lb. .12 - .13¼

Bifluoride, bbls., c.l., works, frt. equald lb. .1375- —
t.c.l., same basis lb. .1415- —

Bisulphate, bulk, c.l., works 100 lbs. 2.00 - —
dms., c.l., works 100 lbs. 2.65 - 3.85
t.c.l., works 100 lbs. 3.05 - 3.65

Bisulphite, anhyd., bgs., c.l., works, 100 lbs. 4.50 - —
t.c.l., works lb. 4.90 - —
solut. 35°, bbls., c.l., works, 100 lbs. 1.40 - —
t.c.l., works 100 lbs. 1.80 - —

Borate (see Borax).

Sodium bromide, USP, bbls., kgs., works lb. .34 - .35
Cacodylate, NF, dms., jrs. lb. 8.53 - —
Carbonate, anhydrous (see Soda ash), crystalline, decahydrated (see Soda sal), monohydrated, bgs., c.l., works 100 lbs. 2.90 - —
t.c.l., works 100lbs. 3.30 - —
Carboxymethyl cellulose (see CMC).

Chlorate, cryst., dms., c.l., works, lb. .08¾- —
t.c.l., works lb. .10¼- .11

Chloride, tech. (see Salt), USP, dms. lb. .05 - .12

Chlorite, tech., dms., works lb. .58 - .73

Chloroacetate, tech., dms., c.l., works lb. .24 - —
t.c.l., works lb. .25 - .26

Chromate, dms., c.l., works lb. .13¼- —
t.c.l., same basis lb. .13¾- .15
Citrate, anhyd., dms lb. .60 - .65
USP VIII, gran., dms. lb. .26 - .30½
USP XIV, gran., dms. lb. .29½- .34
Sodium citrate USP powd. prices ½c. higher.
Cyanate, dms., 1,000-lb. lots, works lb. .85 - 1.10
smaller lots, works lb. 1.00 - 1.25

Cyanide, flake, 96-98%, dms., c.l. or 20,000-lb. lots lb. .178 - —
over 1,000-lb. lots lb. .188 - —
100-lb. to 1,000-lb. lots lb. .198 - —
Granular sodium cyanide 1c. higher.

Diacetate, 33-35% acidity, 250-lb. dms., works lb. .14 - —
t.c.l. lb. .14¾- —
anhydrous, dms., c.l., works lb. .17 - —
t.c.l. lb. .17¾- —

Fluoride, white, 97%, bbls., c.l., works lb. .1250- —
t.c.l., works lb. .1290- —

Fluoracetate, monobasic, 8-oz. tins, 50 to a case, works lb. 12.00 - —
2 to 25 tins to case works lb. 12.00 -16.50
1 oz. tins, 16 to 64 to case, works lb. 16.50 -21.00

Formate, bgs., c.l., dlvd. E 100 lbs. 7.60 - —
t.c.l., works 100 lbs. 8.65 - —
Gentisate, 100-lb fib. dms lb 8.50 - —
Gluconate, technical, bgs. lb. .35 - —
refined, dms. lb. .80 - .83
Glutamate, monobasic, dms., c.l. lb. 1.70 - —
Glycerophosphate, NF, crys., bbls. lb. 2.10 - 2.25
powder, bbls. lb. 2.15 - 2.30
solution, 75%, cbys. lb. 1.45 - 1.60
Hydride, dms., works lb. 2.00 - 3.00
Hydrosulphide (see Sodium sulphydrate).

Hydrosulphite, dms., c.l., frt. alld lb. .24½- —
t.c.l., frt. alld lb. .25 - —

Hydroxide, tech. (see Soda caustic), NF, pellets, 100-lb dms., 1 to 100-dm. lots lb. .18½- .23

Hypophosphite, NF, dms., ton-lots, or less lb. .95 - .98

Hyposulphite, photo grade, bgs., c.l., works 100 lbs. 4.50 - 4.75
t.c.l., same basis 100 lbs. 5.00 - 5.05
pea crystals, bgs 100 lbs. 4.50 - —
gran., bgs., c.l., works 100 lbs. 4.75 - 5.00
tech., bgs., c.l., works 100 lbs. 4.50 - —
t.c.l., works 100 lbs. 4.90 - 6.90
Sodium hyposulphite crystals in bbls. 50c. higher.

NF (see Sodium thiosulphate).

Iodide, USP, bots., dms lb. 2.80 - 2.92
Lactate, edible, 50%, dms., cbys., works lb. .21½- —
60% dms. cbys., works lb. .26½- —
tech., 50% dms., cbys., works, lb. .16¼- —

Laurysulphate, dms., c.l., dlvd lb. .24 - —
t.c.l. dlvd. lb. .25 - —
tanks, dlvd. lb. .23 - —

Metabisulphite (see sodium bisulphite).

Metaborate, octahydrate, gran., bgs., c.l., works ton 78.50 - —
t.c.l., ex whse ton 124.50 -129.50
Sodium metaborate, octahydrate in bbls., $24.50 per ton higher.

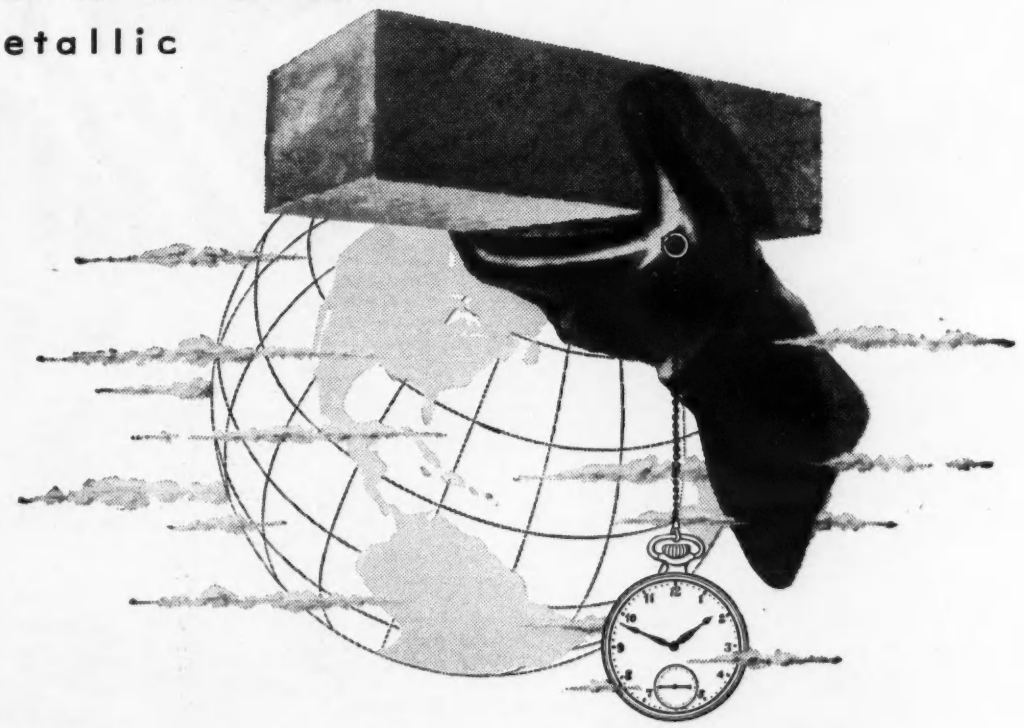
tetrahydrate, c.l., bbls., works ton 199.50 - —
Metallic, tanks, works lb. .18 - —
bricks, bgs., works lb. .17 - .19
Metanilate, bbls, frt. alld lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs 4.85 - 5.00
t.c.l., works 100 lbs. 5.10 - 5.50
dms., c.l. 100 lbs. 5.25 - 5.30
t.c.l. 100 lbs. 5.50 - 5.75
Molybdate, crystals, bbls., works lb. 75 - .85
powd., anhy., dms., works lb. .90 - —
Monohydrate (see Sodium carbonate, monohydrated).

Naphthionate, bbls lb. .70 - —
Nitrate, crude, dom., bgs., c.l., works ton 47.00 - —
bulk, c.l., works ton 43.50 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac., whse ton 53.00 - —
bulk, c.l., same basis ton 49.50 - —
Nitrite, USP bbls., c.l., works, frt. equald lb. .0775- —
t.c.l., same basis lb. .0925- .18
Orthosilicate, anhyd., dms., c.l., works 100 lbs. 5.85 - —
t.c.l., works 100 lbs. 7.60 - —
hydrated, flake, bbls., c.l., works 100 lbs 4.75 - —
t.c.l., works 100 lbs. 5.50 - —
Oxalate, 88%, bgs., works lb. 10.85 - —
Para-aminobenzoate, dms., 1,000-lb. lots or more lb. 2.40 - —
smaller lots lb. 2.45 - 2.50
Para-aminosalicylate, dms., 1,000-lb. lots, frt. adjusted lb. 3.75 - —
smaller lots, same basis lb. 3.80 - 4.25
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .25½- —
t.c.l., same basis lb. .26½- .28½
Pentachlorophenate, pellets, bgs., c.l., same basis lb. .25 - —
t.c.l., same basis lb. .26 - .28
powdered, bgs., c.l., same basis, lb. .24 - —
t.c.l., same basis lb. .25 - .27
Pentachlorophenate 20,000 lbs. min. truckloads ¼c. per lb. over carlot prices.

Pentahydrate, bgs., c.l., works, 100 lbs. 4.00 - —
t.c.l., bgs., works 100 lbs. 4.35 - 4.55
dms., c.l., works 100 lbs. 4.80 - —
t.c.l., works 100 lbs. 5.15 - 5.65

Perborate, USP, tech., bbls., c.l., works lb. .193 - —
t.c.l. works lb. .198 - —
Peroxide, dms., c.l., dlvd. E, of Miss. lb. .1860- —
t.c.l. same basis lb. .1910- .2010
Phenolsulphonate, USP tx, gran., dms lb. .44 - .45
powd., dms lb. .47 - .48
Phosphate, dibasic, anhyd., bgs., c.l., frt., equald 100 lbs. 7.45 - —
t.c.l., works 100 lbs. 7.85 - —
USP, dried powd., bgs., dms., works lb. .19 - .20½
duohydrate, bgs., c.l., frt. equald 100 lbs. 7.05 - —
t.c.l., frt. equald 100 lbs. 7.25 - —
monobasic, anhyd., bgs., c.l., frt. equald 100 lbs. 8.45 - —
t.c.l., frt. equald 100 lbs. 8.90 - —


SODIUM
metallic



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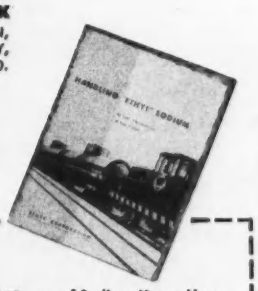

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OP&DR 9-28-53

Sodium phosphate, tribasic, cryst., bgs., c.l., frt. equald.
100 lbs. 4.20 - —
l.c.l., frt. equald. 100 lbs. 4.60 - —
Sodium phosphates in dms., 60c. higher than bgs.
Prussiate, yellow, bgs., 10-ton lots. lb. .13½- —
smaller lots ..... lb. .14 - —
Pyrophosphate, acid, bgs., c.l., works, frt. equald. 100 lbs. 10.75 - —
ferric, dms., 1,500-lb. lots, works lb. .31 - —
smaller lots, works ..... lb. .32 - —
tetrabasic, anhy., bgs., c.l., works frt. equald. 100 lbs. 7.90 - —
l.c.l., frt. equald. 100 lbs. 8.10 - —
Salicylate, USP, dms. ..... lb. .68 - —
Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., dlvd., zone 1 ... 100 lbs. 3.85 - 4.10
zone 2 ..... 100 lbs. 4.10 - 4.35
zone 3 ..... 100 lbs. 4.40 - 4.65
zone 4 ..... 100 lbs. 5.10 - 5.35

Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss. south of 31° Tex E. of 100°; S. of 31° Fla., also Me. N. H. and Vt., in which there are special county zones: Davenport, Ia. and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport) Minn. Mo. (except St. Louis) Neb., E. of 98° N. C. S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96° Kan. Neb. W. of 96°; N. D. Okla. S. D. Tex. W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz. Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.

Sesquisilicate, hydrated, dms., c.l., works.. 100 lbs. 5.50 - —
l.c.l., works ..... 100 lbs. 7.00 - —
hydrated, bgs., c.l. works 100 lbs. 4.70 - —
l.c.l., bgs., works 100 lbs. 5.25 - 6.00
Silicate, liquid, 40° 1:3.2, turbid, dms., c.l., works.. 100 lbs. 1.35 - —
l.c.l., works 100 lbs. 1.70 - 2.30
tanks, works 100 lbs. 1.00 - —
47°, turbid, 1:2.9, dms., c.l., works.. 100 lbs. 1.95 - —
l.c.l., dms., works. 100 lbs. 2.55 - 2.80
tanks, works 100 lbs. 1.60 - —
52°, turbid, 1:2.4, dms., c.l., works lb. 2.30 - —
l.c.l., works.. 100 lbs. 2.75 - 3.00
tanks, works... 100 lbs. 1.95 - —
solid, 1:3.2, bgs. works ton. 57.50 - —
Silicofluoride, bgs., c.l., works lb. .070 - —
l.c.l., works ..... lb. .07 - .08
Sodium silicohuoride in dms., 4/10c. higher.
Stannate, dms., works, frt. alld. E.. lb. .47 - .524
Stearate, tech., dms., works ... lb. .40 - —
USP, dms. works ..... lb. .70 - .75
Sulphanilate, bbls., works ..... lb. .22 - —
Sulphate, NF, Vil, dried, powd., dms lb. .22½- —
tech., anhyd., bgs., c.l., works, frt. alld. to $10. 100 lbs. 2.25 - —
l.c.l., works, same basis. 100 lbs. 2.50 - 3.00
rayon grade, bgs., c.l., works. ton. 27.00 - —
l.c.l. works ..... ton 33.00 - —
USP, cryst. fib dms ..... lb. .17½- .18
gran., fib dms ..... lb. .17½- .18
Sulphide, flake, dms., c.l., works, E., frt. equald. lb. .05¼- —
l.c.l., same basis ..... lb. .05¾- —
fused, bbls., c.l., works, E., frt. equald lb. .04¾- —
l.c.l., same basis ..... lb. .05¼- —
Sulphite anhyd., bgs., c.l., works. 100 lbs. 3.00 - —
l.c.l. same basis ... 100 lbs. 3.50 - —
powder, bbls., c.l., works 100 lbs. 7.25 - —
l.c.l., works ..... 100 lbs. 7.50 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate bbls lb. No prices.
Sulphydrate, flake, 70-72%, dms., works, c.l. lb. .06½- —
l.c.l., works ..... lb. .07 - —
liquid, 40-44%, tanks, works, basis 100%. ton. 110.00 - —
Tetraborate (see Borax.)
Tetrasulphide, liquid, 40%, dms., c.l., works.. lb. .03½- —
l.c.l., works ..... lb. .04 - —
Thiocyanate, CP, dms..... lb. .55 - .65
tech., dms., works..... lb. .377 - —
Thiosulphate, NF, cryst., bbls lb. .12½- —
tech (see Sodium hyposulphite).
Titanate ctns. c.l. works.. lb. .10½- —
5-ton lots, works ..... lb. .10¾- —
1 ton or less, works ..... lb. .11 - —
Trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld., E.. lb. .37½- —
l.c.l., frt. adjusted, E.. lb. .39½- —
50-lb. dms., c... frt. alld., E. lb. .38 - —
l.c.l., frt. adjusted, E.. lb. .40 - —
90%, 10-lb. cns., c.l., frt. alld., E.. lb. .44 - —
l.c.l., frt. adjusted, E.... lb. .46 - —
Prices West of the Rockies are 1¾c. per pound higher.
Tripolyphosphate, bgs., c.l., works, frt. equald.. 100 lbs. 8.25 - —
l.c.l., same basis..... 100 lbs. 8.45 - —
Trisilicate, powd., 1:3.2, bgs., c.l., works.. 100 lbs. 7.75 - —
l.c.l., works ..... 100 lbs 8.50 - 8.90
dms., c.l., works.... 100 lbs. 8.15 - —
l.c.l., works ..... 100 lbs. 8.90 - 9.30
Tristearate, fib. dms., 20-000-lb. lots, works. lb. .33 - —
10,000 to 20,000-lb. lots, works. lb. .35 - —
smaller lots, works lb. .38 - .40
Tungstate, tech., kgs., dlvd. E lb. 2.90 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium-carboxymethylcellulose. See CMC.
Sodium-cinchopnen (see Cinchophen-sodium).
Sodium-formaldehyde sulphoxylate, dms., c.l., dlvd.. lb. .23½- —
l.c.l., same basis..... lb. .24 - —
Sodium sulpha drugs (see Sulpha name).
Sodium-zirconyl sulphate, fiber dms., 1,000-lb. lots or more, works. lb. .28 - —
less than 1,000-lb. lots, same basis lb. .30 - —
Solvent naphtha, coaltar, refined, tanks, works gal. .31 - .32
high-flash, tanks, works gal. .31 - .32
petroleum (see petroleum solvent, partial aromatic).
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works. lb. .32 - —
10,000 to 20,000-lb. lots, works, lb. .34 - —
smaller lots, works ..... lb. .37 - .39
Sorbitol, cryst., pellets, dms., c.l., works lb. .30 —
1 to 5-ton lots, works.... lb. .32 - .33
powd., dms., 1 to 5-ton lots, works lb. .38 .39
solution, commercial, aqueous, dms., c.l., works. lb. .24½- —
ton lots works lb. .25 - —
less ton lots, works lb. .25¼- —
tanks, works ..... lb. .23¼- —
Sorbitol solution, regular, 70%, aqueous, dms., c.l., works.. lb. .16 - —
ton lots, works..... lb. .16¾- —
less ton lots, works.. lb. .17 - —
tanks, works ..... lb. .15 - —
Soybean meal, 44%, bulk, Decatur. ton. 59.00 - —
protein, chemically isolated, 40,000 to 60,000-lb. lots, dlvd. lb. .23½- —
20,000 to 40,000-lb. lots, same basis.. lb. .23¾- —
100 to 20,000-lb. lots, same basis lb. .24¼- —
mechanically refined, bgs., 40,000-lb. lots same basis. lb. .0605- —
20,000-lb. lots, same basis.. lb. .0620- —
smaller lots, same basis. lb. .0635- —
Sparteine sulphate, cns ..... oz. .85 1.25
Spearmint leaves, bls..... lb. .65 - —
Spruce extract liq. reg., tanks, works lb. .01¾- —
powd., super, bgs., c.l., works. works lb. .07 - —
l.c.l., works ..... lb. .05¾- —
Squill, red, fortified, powd., bbls., boxes lb. 1.60 - —
white, bls. ..... lb. .12 - .15
powd., bbls., bxs ..... lb. .18 - .21
St. John's bread, edible, bls..... lb. .13 - .15
Stannous chloride (see Tin chloride stannous)
Star root (see Helonias root)
Stargrass root (see Aletris root)
Starch, corn, pearl, paper bgs., c.l., N. Y. 100 lbs. 7.14 - —
l.c.l. ..... 100 lbs. 7.29 - —
powd., paper bgs., c.l. 100 lbs. 7.26 - —
l.c.l. ..... 100 lbs. 7.32 - —
Prices for corn starch in cotton bags 25c. per 100 lbs. higher.

## Sodium Phosphate, Tribasic—Sulphapyridin-Sodium Monohydrate

Starch, potato, dom., Idaho, bgs., c.l., works.. lb. .06½- —
Maine, bgs., c.l., works... lb. .06 - .06½
l.c.l., spot ..... lb. .06¼- .06¾
Rice, l.c.l., bgs ..... lb. .16 - .17
Wheat, bgs. ..... lb. .0755- .0780
Stavesacre seed, bgs ..... lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stomach substance, not USP, fib. dms lb. 2.95 - 3.10
Storax, USP, cs ..... lb. .85 - 2.05
Stramonium leaves, bgs ..... lb. .17 - .19
Streptomycin hydrochloride, bulk, gm. .17 - —
Sulphate, bulk ..... gm. .17 - —
Strontium bromide, NF, cns., dms. lb. .77 - .78
Carbonate, pure, dms., 5-ton lots or more, works.. lb. .33 - —
1-ton lots, works..... lb. .37 - —
tech., dms., works ..... lb. .19 - —
Chromate, bbls works..... lb. .46 - —
Iodide, jars, 25-lb. lots..... lb. 3.42 - —
Nitrate, bbls., cs., works..... lb. .11 - .12
Oxalate, bbls. works ..... lb No prices.
Salicylate, NF dms lb. 1.65 - —
Sulphate, air floated 90%, 325 mesh bgs. works ton. 56.70 - 66.15
Strontium-calcium sulphide phosphorescent, dms., works.. lb. 2.80 - 2.85
Strophanthin, NF, bots ..... oz. 25.00 - 25.50
Strophanthus seed, Komoe, biologically tested, bgs lb. 3.25 - —
Strychnine, NF, powd., cans, 100-oz. lots.. oz. 1.10 - —
Phosphate, NF, 100-oz. lots... oz. 1.14 - —
Sulphate, USP, powd., cans 100-oz. lots: oz. .85 - —
Styrene monomer, dms., c.l., works lb. .23¼- —
l.c.l., works ..... lb. .23¼- —
tanks, works ..... lb. .21 - —
Styrolyl acetate, bots..... lb. 1.45 - 1.70
Sucrose octa-acetate, denaturing grd., 100-200-lb bgs., l.c.l., works lb. .71 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphabenzamide, dms ..... lb 4.00 4.50
Sodium, dms ..... lb 4.10 4.60
Sulphacetamide fiber dms ..... lb 4.00 4.20
Sodium, fib. dms ..... lb 5.00 5.20
Sulphadiazin, USP, microcrystals, dms lb 10.60 11.10
powder, dms. ..... lb..10.25 -10.75
Sulphadiazin-sodium, USP, dms lb 11.25 11.75
micro crystals, dms lb 10.60 11.10
Sulphaguanidin, USP, dms ..... lb. 3.50 4.00
Sulphamerazin USP micro crystals. lb. 10.65 -11.15
Sulphamerazin-sodium USP, dms., lb. 11.25 -11.75
Sulphamethazine, micro crystals, dms lb 8.90 9.40
powder, dms ..... lb 8.50 9.00
Sulphanilamide, USP 30-80 mesh., dms lb 1.40 1.60
microcrystals, dms. ..... lb. 1.70 - 1.90
powder, dms ..... lb 1.30 1.50
Sulphanilamidoquinoxaline, veterinary, dms lb 6.50 6.75
Sulphapyridin, NF powd. bots. tins. lb. 7.00 7.50
Sulphapyridin-sodium monohydrate, dms lb 7.50 8.00


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# SODIUM NITRITE

U. S. P.

Sodium Nitrite has long had many important uses in American industry. Many industries are now using this versatile product to do a variety of jobs. What can Solvay Sodium Nitrite do for you? For technical information on specific uses of Solvay Sodium Nitrite, write on your business letterhead to the address below.

**Physical and Chemical Properties**

**Molecular Weight:** 69.01.

**Solubility in Water:** 20% at −12° C., 39% at −26°C. (eutectic). 50% at 42°C., 60% at 90°C. Slightly soluble in alcohols, very soluble in anhydrous ammonia.

**Negative heat of solution.**

**Melting Point:** 271°C., decomposes at 320°C.

**Appearance:** Crystalline, slight yellow cast, almost 100% will pass through a No. 20 screen.

**Reactions:** Can be either a reducing or oxidizing agent. Provides $NO_2$ for azo reaction.

**Quality:** U.S.P. grade. Better than 99% $NaNO_2$, very low in chlorides and metallic impurities.

**DO YOU HAVE A CORROSION PROBLEM?**

Solvay Sodium Nitrite is an excellent anti-corrosion agent that will not injure the skin of a normal person. It will however protect a wide variety of metals including iron and steel.

Among the current applications utilizing this property of Solvay Sodium Nitrite are: prevention of corrosion in air conditioning units and circulating water systems; as a corrosion inhibitor in water base paints, water soluble hydraulic fluids, metal cutting and grinding compounds; as a rust preventive in household scouring pads and radiator anti-freeze compounds.

Do you have a corrosion problem that could be solved with Solvay Sodium Nitrite?

**USES FOR SOLVAY SODIUM NITRITE**

**METAL INDUSTRY**
- for corrosion prevention
- for detinning
- for heat treating salts
- for oxidizing compounds
- for enameling
- for specialized metal cleaning compounds

**MEAT PACKING**
- as a color fixative for meats

**TEXTILE INDUSTRY**
- in azo dyeing

**ORGANIC CHEMICAL SYNTHESIS**
- provides nitrite ion for diazonium reaction

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Sodium Nitrite • Para-dichlorobenzene • Ortho-dichlorobenzene • Monochlorobenzene • Ammonium Chloride

## Sulphathiazole—Trichloroethylene

Sulphathiazole, USP, micro crystals, dms lb. 3.15 - 3.30
powder, dms. lb. 2.80 - 2.95
Sulphathiazole-sodium, USP, dms., lb. 3.05 - 3.20
Sulphur, commercial, flour, bgs., mines 100 lbs. 2.30 - —
bbls., mines 100 lbs. 3.05 - —
lump, bgs., mines 100 lbs. 2.20 - —
bbls., mines 100 lbs. 2.65 - —
crude, bulk, c.l., mines, contract, long ton 25.50 -27.50
export, f.o.b. vessels, Gulf ports long ton 28.00 -30.50
domestic and Canada, f.o.b. vessel Gulf port long ton 27.50 -30.50
refined, flowers, USP, bgs., mines, 100 lbs. 4.00 - —
bbls. 100 lbs. 5.25 - —
flour, light, bgs., mines 100 lbs. 3.60 - —
bbls., mines 100 lbs. 4.50 - —
lump, bgs., mines 100 lbs. 3.30 - —
rolls, bgs., mines 100 lbs. 3.85 - —
bbls., mines 100 lbs. 4.40 - —
salt block, bgs., mines 100 lbs. 3.35 - —
virgin block, bbls., mines, 100 lbs. 3.45 - —
rubbermarkers, com'l, regular bgs., mines 100 lbs. 2.40 - —
bbls., mines 100 lbs. 3.55 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.50 - —
bbls., mines 100 lbs. 3.65 - —
refined, bgs., mines 100 lbs. 3.25 - —
bbls., mines 100 lbs. 4.30 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.70 - —
bbls., mines 100 lbs. 3.85 - —
10% pine tar, bgs., mines, 100 lbs. 3.90 - —

Sulphur dichloride, dms., c.l., works, frt. equald lb. .03¾- —
l.c.l., same basis lb. .04½- —
tankcars, same basis lb. .03½- —
Dioxide liquid, com'l, cyls., works lb. .09 - —
multi unit cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration, cyls., l.c.l., dlvd. lb. .24 - —
Monochloride, 55-gal. dms., c.l., frt. equald lb. .03¾- —
l.c.l., same basis lb. .04½- —
tanks, same basis lb. .03½- —
Washed, NF, bot lb. .11 - —
Sumac leaves, 28%, bgs., ex-dock, ton. 120.00 - —
ground, ex-dock ton. 120.00 - —
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., saltc. unit-ton. .88 - .91
Carteret, N. J. unit-ton. .88 - .91
triple, 48% or more, a.p.a. pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 - —

## T

2,4,5-T, dms., cl., works lb. 1.40 - —
l.c.l., works lb. 1.45 - 1.50
Isopropyl ester dms. c.l., works, lb. 1.45 - —
l.c.l., works lb. 1.50 - 1.57
Talc, dom., ordinary, Calif., grd., bgs., c.l., works ton. 32.00 -36.50
Vermont off color, grd., bgs., c.l., works ton. 14.00 - —
l.c.l., works ton. 17.50 - —
Talc, fibrous, New York, grd., bgs., c.l., works ton. 25.00 -30.00
l.c.l. ton. 28.00 -35.00
99.5%, 325 mesh, bgs., c.l., works ton. 27.00 - —
l.c.l., works ton. 30.00 -32.00
99.95%, micronized, bgs., works, ton. 36.00 - —
imp. Canadian, grd., bgs., c.l., mines, ton. 13.25 -25.00
Tallow, edible, tanks, dlvd lb. .13 Nom.
inedible, extra, tanks, dlvd lb. .04¾- —
fancy, bleachable, tanks, dlvd, lb. .03 - —
No. 1, tanks, dlvd lb. .03¾- —
special, tanks, dlvd lb. .04½- —
sulphonated, 25%, dms., l.c.l. lb. .06¾- .07⅛
50%, dms., l.c.l. lb. .07⅛- .08⅛
Tankage, animal, feeding, 9-11% ammo, bulk unit-ton. 5.50 - —
Chicago unit-ton. 6.25 - —
Tapioca flour, Brazilian, ex whse, bgs lb. .14½- .17
Java, AAA, bgs., ex whse., bgs. lb. .08 - .08½
AA, bgs., ex-whse lb. .07½- .08
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis gal. .50 - .51
tanks, same basis gal. .39 - —
25-28%, dms., c.l., same basis, gal. .54 - .56
l.c.l., same basis gal. .57 - .58
tanks, same basis gal. .46 - —
50-53%, dms., c.l., same basis, gal. .70 - .72½
l.c.l., same basis gal. .73½- .74½
tanks, same basis gal. .62½- —
Coal (see Coaltar).
Pine (see Pinetar).
Tartar emetic, tech., gran. or powd., dms. lb. .56 - .59
USP, powd., dms lb. .61 - .62
Terpin hydrate, com'l, bbls., c.l. lb. .34½- —
l.c.l. lb. .35 - .35½
NF, cryst., fib. dms lb. .57½- .62
powd., fib., dms lb. .65 - .69
Terpineol, alpha (see A).
Commercial, dms., c.l., South lb. .13½- —
l.c.l., South lb. .14 - —
extra, dms lb. .41 - .60
prime, dms lb. .30 - .45
Terpinglycol ether, dms., c.l., works, lb. .23½- —
l.c.l. works lb. .25½- —
tanks, works lb. .22 - —
Terpinyl acetate, extra, cns., dms. lb. .55 - .75
prime, dms lb. .55 - .70
Propionate, dms lb. 1.75 - 2.00
Terra alba (see Gypsum).
Testosterone, USP, 100-gm. lots, bots., gm. .79 - —
Propionate, USP, 100-gm. lots, bots., gm. .79 - —
Tetrachloroethane, dms., works lb. .14½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55-gal. dms., works lb. .20½- .21¼
smaller, dms., works lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., works, lb. .71 - —
l.c.l. lb. .72 - —
Pyrophosphate, 40%, cns., dms., frt. equald lb. .69 - —
Tetraethylenepentamine, dms., c.l., dlvd., E lb. .57½- —
l.c.l., dlvd. E lb. .58½- —
tanks, dlvd. E lb. .56 - —
Tetrapotassium phosphate, (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thalium metal, dlvd lb. 12.50 -15.00
Salicylate, fib. dms lb. 4.25 - —
Sodio-salicylate, fib. dms lb. 2.90 - —
Sulphate, 99%, bots., dlvd lb. 10.50 -13.00
Theobromine, NF, fib. dms lb. 3.00 - —
And sodium acetate, USP, fib. dms. lb. 3.53 - 3.60
Salicylate, fib. dms lb. 4.00 - —
Sodio-salicylate, NF, fib. dms. lb. 2.90 - —
Theophylline, anhydrous, or USP, 100-lb. dms. lb. 3.15 - 4.00
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. kilo. 135.00 - —
Mononitrate, USP, fib. dms. kilo. 135.00 - —
Thiocarbanilide, dms lb. .50 - .52
Thiodiphenylamine (see Phenothiazine).
Thiophene, dms., c.l., works lb. 1.99¾ Nom.
l.c.l., same basis lb. 2.00 Nom.
Thiourea, tech., dms., c.l., works lb. .40 - —
l.c.l., works lb. .42 - —
Thorium nitrate, purified, fib. dms., 100-lb. lots or more, works lb. 3.50 - —
Threonine dextro laevo, bots., 1-kilo lots kilo. 600.00 - —
Thyme, French, bgs lb. .21 - .25
Spanish, bls lb. .09 - .10
Thymol, fib. dms lb. 3.00 - 3.25
Timbo root (see Cube root).
Tin chloride stannous anhyd., dms., works lb. .811 - 1.019
Crystals, hydrous, bbls., dms., works lb. .71½- .72½
Metal lb. .82 - —
Oxide, dms. lb. .84½- .85½
Sulphate, stannous, bbls. lb. .871 - .891
Tetrachloride, annyd., dms., works, lb. .71 - .72
Titanium dioxide anatase, chalk resistant, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
ceramic, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
regular, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
metallurgical, natural, granular, bgs., c.l., f.o.b. Jacksonville, Fla. ton. 120.00 - —
Niagara Falls, N. Y. ton. 137.50 - —
5-ton lots, same basis. ton. 142.50 - —
ton lots, same basis. ton. 147.50 - —
Milled titanium dioxide $7.50 per ton higher.
Rutile, non-chalking, bgs., c.l., dlvd. E lb. .24½- —
l.c.l., dlvd. E lb. .25½- —
Hydride, cns., works lb. 7.95 - 9.00
Pigment, calcium-rutile base, bgs., c.l., dlvd lb. .08⅜- —
l.c.l., dlvd. lb. .08⅞- —
Tetrachloride, tech., dms., c.l., works lb. .45½- —
l.c.l., works lb. .48½- .56½
tankcars, works lb. .44½- —
Tolidin base, distilled, kgs lb. 1.30 - —
Tolu balsam, cns., dms lb. 2.65 - 4.50
Toluene (see Toluol).
Toluol, coaltar, industrial or nitration, tanks, works—
Bethlehem, Pa. gal. .34 - —
Birmingham dist. gal. .32 - —
Chicago dist. gal. .35 - —
Cleveland, dist. gal. .34½- .35
Geneva, Utah gal. .26 - —
Johnstown, Pa. gal. .32 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .35 - —
Lorain, Ohio gal. .33 - —
Philadelphia, Pa. gal. .35 - —
Pittsburgh dist. gal. .32 - —
Sparrow's Point, Md. gal. .34 - —
Terre Haute, Ind. gal. .35 - —
Youngstown, Ohio gal. .32½- .33
Petroleum, industrial, 2° tanks, works, Albany, N. Y. gal. .35 - —
Bayonne, N. J. gal. .35 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Detroit, Mich. gal. .35 - —
Philadelphia, Pa. gal. .35 - —
Providence R. I. gal. .35 - —
Wood River Ill. gal. .35 - —
Tonka beans, Angostura, cks. lb. 1.65 - 1.80
Brazilian, Surinam, cs. lb. 1.00 - 1.25
Totaquine, 100-oz. lots, cns. oz. .42 - —
Toxaphene, dms., c.l., works lb. .17 - —
truckloads, works lb. .17 - —
ton to truckloads, works lb. .20 - —
smaller lots, works lb. .23 - —
Triacetin, dms., c.l., dlvd. E, of Rockies lb. .47¼- —
l.c.l., same basis lb. .48¼- .49¾
tanks, same basis lb. .45¼- —
Tributyl citrate, tech., dms., c.l. lb. .40½- —
l.c.l. lb. .41½- —
tanks lb. .39 - —
Phosphate, dms., c.l., works lb. .38 - —
l.c.l., same basis lb. .52¾- .64½
tanks lb. .50 - —
Tributylamine, dms., c.l., works, lb. .73½- —
l.c.l., same basis lb. .75 - —
tanks, same basis lb. .72 - —
Trichlorobenzene, dms., c.l., works, frt. alld lb. .14½- —
l.c.l., frt. alld lb. .15½- —
tanks, frt. alld lb. .13 - —
Prices in the West 1¼c. higher.
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald, lb. .11¼- —
dlvd. E lb. .12½- —
l.c.l., dlvd. E lb. .13½- —
tanks, works, frt. equald lb. .10¼- —
dlvd. E lb. .11 - —


# new
# JUST PUBLISHED

Contains the latest information on Caustic Soda in 64 factual pages of illustrations, charts, tables, diagrams. Includes comprehensive data on methods of analysis, shipping, handling, storage and unloading.

This authoritative handbook, by the Technical Staff of the Columbia-Southern Chemical Corporation, is available without charge to users of Caustic Soda and to others whose work involves the use of this product.

Write on company stationery to Columbia-Southern Chemical Corp., 632 Fort Duquesne Boulevard, Pittsburgh 22, Pennsylvania.

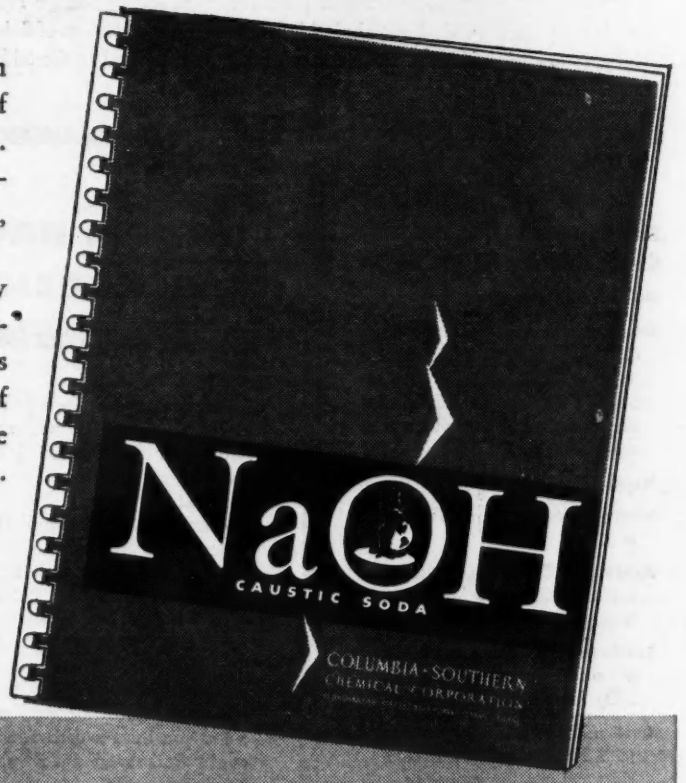


TABLE OF CONTENTS:

History, Production and Uses of Caustic Soda
The Manufacture
Forms and Grades
Shipment
Comparative Economics of Solid and Liquid
Precautions in Handling
Unloading
Technical Data
Methods of Analysis

COLUMBIA-SOUTHERN CHEMICAL CORPORATION
SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY
420 FORT DUQUESNE BOULEVARD, PITTSBURGH 22, PA.

DISTRICT OFFICES: BOSTON • CHARLOTTE
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PITTSBURGH • ST. LOUIS • SAN FRANCISCO

Trichloroethane, dms., c.l., works..lb. .13 - —
l.c.l., works..lb. .13½- —
tanks, works..lb. .11½- —
Tricholine citrate, 65% solut., ret. cbys., works, frt. adjusted. lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd..lb. .34¾- —
l.c.l., dlvd. ..lb. .35¾- —
tanks, dlvd. ..lb. .33 - —
petroleum, dms., c.l., dlvd..lb. .34¾- —
l.c.l., dlvd. ..lb. .35¾- —
tanks, dlvd. ..lb. .33 - —
Triethanolamine, dms., c.l., dlvd. E..lb. .26¼- —
l.c.l., same basis..lb. .27¼- —
tanks, same basis..lb. .24½- —
Triethylamine, dms., c.l., works, dlvd. E..lb. .45½- —
l.c.l., same basis..lb. .46½- —
tanks, same basis..lb. .43¾- —
Triethyl phosphate, dms., c.l., works. lb. .38 - —
l.c.l., same basis..lb. .39 - —
tanks, same basis..lb. .37 - —
Triethyleneglycol, dms. c.l., dlvd E. lb. .23¼- —
l.c.l., same basis..lb. .24¼- —
tanks, same basis..lb. .21½- —
Triethylenetetramine, dms., c.l., dlvd. E..lb. .48½- —
l.c.l., dlvd. E..lb. .49½- —
tanks, dlvd. E..lb. .47 - —
Trimethylamine, 25-40%, dms., c.l., works, frt. equald, basis 100%..lb. .38 - —
l.c.l., works, frt. equald, basis 100%..lb. .38½- —
tanks, works, frt. equald., basis 100%..lb. .33 - —
Tripentaerythritol, bgs., c.l., works. lb. .36½- —
l.c.l., same basis..lb. .39½- —
Triphenyl phosphate, bbls., c.l., frt. equald..lb. .39 - —
l.c.l., frt. equald..lb. .40 - —
Triphenylguanidine, bbls., works..lb. .90 - —
Tripoli, air floated, bgs., c.l., works. lb. .02 - —
double grd., bgs., c.l., works..lb. .0185- —
single grd., bgs., c.l., works..lb. .0175- —
Tripropyleneglycol, dms., c.l., frt. alld..lb. .26¼- —
l.c.l., frt. alld..lb. .27¼- —
tanks, frt. alld..lb. .24½- —
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic).
Trisodium phosphate (see Sodium phosphate tribasic).
Trypsin, pharmaceutical, 1:80, dms., works..lb. 5.00 - 5.50
Trptophane dextro-laevo, fib. ctns. works..kilo.165.00 - —
Tuba root (see Cube root).
Tungsten metal, powd., 99.9%, dms. works..lb. 7.75 - —
Turpentine, gum and wood (see Protective Coatings market, Naval Stores).
Tyrothicin, USP, bots..lb. .75 - .85

## U

Urethane, USP dms..lb 1.50 - —
Unicorn root false (see Helonias root)
True (see Aletris root).
Uranium oxide, black, bgs..lb. 2.55 - —
yellow, kgs..lb. 1.65 - —
Urea, dom., 46% N, bgs., c.l., works. lb. .06 - —
l.c.l., works..lb. .06½- —
44% N, bgs., c.l., 30 tons, frt alld, Kan., Neb., N. Dak, Okla., S Dak, Tex., and E..ton.154.00 - —
l.c.l., dlvd. ..ton.162.00 - —
Urea-ammonia liquor, A and B grades N basis, tankcars, Belle, W. Va..ton.128.00 - —
C grade, tankcars, same basis. ton.126.50 - —
37 grade, tankcars, same basis. ton.155.50 - —
Uva ursi leaves, bls..lb. .12 - .14

## V

Valine, dextro-laevo, dms.. works lb.21.00 -27.50
Valonia, beards, 40-42% tannin, bgs. ex dock..ton.76.00 - —
cups 28-30% tannin bgs. ex dock. ton.57.00 - —
extract, powd., 62% tannin, bgs., ex dock, duty extra..lb. .05½- —
Vanadium pentoxide, tech., dms., works..lb. 1.28 - 1.33
Vanilla beans, bourbon, tins..lb. 5.75 - 6.50
Mexican, cuts, tins..lb. 5.50 - 6.00
whole, tins..lb. 6.00 - 6.50
Tahiti, cs..lb. 4.25 - 4.50
Vanillin, ex eugenol, tins, 25-lb. lots. lb. 6.50 - 6.75
smaller lots..lb. 6.90 - 7.25
ex guaiacol, tins, 25-lb. lots..lb. 3.00 - —
smaller lots..lb. 3.05 - 3.15
ex lignin, tins, 25-lb. lots..lb. 3.00 - —
smaller lots, tins..lb. 3.05 - 3.15
Vinyl acetate, 55-gal. dms., c.l., dlvd. E..lb. .17½- —
l.c.l., dlvd E..lb. .18½- —
tanks, dlvd. E..lb. .15½- —
Butylether, normal, tech., dms., c.l., works..lb. .28 - —
l.c.l., works..lb. .30 - —
tanks, works..lb. .27 - —
Ether (see Ether Vinyl)
Ethylether, tech., dms., c.l., works. lb. .26 - —
l.c.l., works..lb. .28 - —
tanks, works..lb. .25 - —
Isobutylether, tech., dms., c.l., works..lb. .28 - —
l.c.l., works..lb. .30 - —
tanks, works..lb. .27 - —
Methylether, cyls., works..lb. .23 - —
tanks, works..lb. .20 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Pyridin, ret. dms., works..lb. 1.50 - —
Trichloride, (see Trichloroethane).
Viosterol, in alcohol, 1,000,000 D units per gm., bots., lots of 10 billion USP units, 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in natural vegetable oil, 400,000 to 1,000,000 D units per gm., bots., lots of 10 billion USP units, 1,000,000 units. .02 - —
lots of 1 billion USP units, 1,000,000 units. .025 - —
lots of less than 1 billion USP units, 1,000,000 units. .03 - —
Vitamin A, synthetic, acetate, crystalline, beads, 500,000 A units per gm gm. .07¼- —
liquid, in oil, 1,000,000 A units per gm, 1,000,000 units. .12 - —
natural, concentrates (see Oil, fishliver).
Palmitate, liquid, 1,000,000-1,800,000 A units per gm. 1,000,000 units. .12 - —
in oil, 1,000,000 A units per gm..1,000,000 units. .13 - —
Vitamin B (see Thiamine hydrochloride).
$B_1$ (see Riboflavin).
B complex, natural (see Rice bran concentrate and Yeast).
$B_6$ (see Pyridoxine hydrochloride).
$B_{12}$, crystalline, gm. or 5 gm. vials gram.295.00 - —
oral grade solids, in containers of 1 and 5 grams of $B_{12}$ activity, gm.225.00 - —
C (see Acid, ascorbic)
D (see Oils, codliver and fishliver, Calciferol, and Viosterol).
$D_2$ (see Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
H (see Biotin)
K, Active (see Menadione).
$K_1$, 25 gm. bots..gram. 4.50 - —
Violet methyl toner (see Blue methylviolet toner.
V.M.&P. naphtha (see Petroleum naphtha).

## W

Wahoo root bark, bls..lb. 2.20 - 2.25
Warfarin, 0.5%, dms., 50 lb. lots, dlvd..lb. 1.95 - —
25-49 lb. lots, f.o.b., N.Y., or Chi..lb. 2.05 - —
5-24 lb. lots, cns., f.o.b., N. Y., or Chi..lb. 2.15 - —
Wattle bark, fair average, or E. African, bgs., ex dock..ton.100.00 - —
merchantable bgs., ex dock..ton.96.50 - —
extract, liquid 35% tannin bbls., lb. .09¾- .10
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra..lb. .10 - —
S. Africa, 60% tannin, ex-dock, duty extra..lb. .10 - —
Wax amorphous (see Wax microcrystalline).
Bayberry, bgs., spot..lb. .42 - .45
Bees, crude, African, bgs..lb. .47 - .48
Brazilian, bgs..lb. No stocks.
Central American, bgs..lb. .56 - .57
Chilean, bgs..lb. .57 - .58
refined, bleached, white, bricks lb. .65 - .67
slabs..lb. .63 - .65
yellow, bricks..lb. .58 - .60
slabs..lb. .56 - .57
Candelilla, crude, bgs..lb. .75 - .77
refined, bgs..lb. .77 .79

Powdered candelilla, 20 mesh, 5c. per lb. higher; 80 mesh 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, bgs., ton lots. lb. .99 - 1.00
North Country, No. 2, bgs., ton lots..lb. 1.08 Nom.
No. 3, crude, bgs, ton lots..lb. 1.02 - 1.04
refined, bgs., ton lots..lb. 1.05 - 1.07
Yellow, No. 1 Ceara, bgs., ton lots lb. 1.30 - 1.32
Parnahyba, bgs., ton lots.lb. 1.38 Nom.
No. 2, Ceara, bgs., ton lots, lb. 1.28 - 1.30

Powdered carnauba wax price differentials same as powdered candelilla.

Esparto, African..lb. .72 —
Japan, bgs..lb. .22 - .23
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 20,000 lbs., group 3, works..lb. .13 - .14
smaller lots, same basis. lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½- .12½
smaller lots, same basis. lb. .12½- .13½

### Trichloroethane—Wax, Spermaceti

Wax, microcrystalline, 170°-175° m.p., ASTM, white, ctns., 20,000 lbs., same basis..lb. .24 - .25
smaller lots, same basis. lb. .25 - .26
180°-185° m.p., ASTM, amber, ctns., 20,000 lbs., same basis. lb. .16 - —
smaller lots, same basis. lb. .17 - —
black, ctns., 20,000 lbs., same basis. lb. .14½- —
smaller lots, same basis. lb. .15½- —
white, ctns., 20,000 lbs. same basis lb. .27 - —
smaller lots, same basis. lb. .28 - —
190°-195° m.p., ASTM, amber ctns., 20,000 lbs., same basis..lb. .20 - —
smaller lots, same basis. lb. .20½- —
black, ctns., 20,000 lbs., same basis lb. .18 - —
smaller lots, same basis. lb. .18½- —
white, ctns., 20,000 lbs., same basis lb. .33½- —
smaller lots, same basis. lb. .34½- —
Montan, dom., refined, bgs lb. .31 .32
imported, crude, Bohemian, bgs lb. .12½- .13
German, bgs..lb. .13 - .13½
Ouricury, ref., bgs..lb. .80 - .82
Paraffin (see P)
Spermaceti, blocks, cs..lb. .25½- .31
cakes, cs..lb. .26½- .32


your best buy for all your metal degreasing

and here's why!

**ALL-PURPOSE**—Removes from metal parts practically every kind of foreign matter—waxes, oils, greases, gums, tars, chips.

**QUICK ACTING**—Cleans and dries rapidly. Low boiling range (86.6°-87.8°C, based on standard ASTM tests) permits vaporization at low steam pressure.

**THOROUGH**—Low viscosity (0.58 centipoises at 20°C) and low surface tension (about 29 dynes per cm at 30°C) assure diffusion into pores and relatively inaccessible openings.

**SAFE**—Has neither flash point nor fire point; classed as nonflammable at room temperatures, only moderately flammable at higher temperatures (Underwriters' Laboratories rating 3).

**CUTS POWER CONSUMPTION**—Can be heated by either gas, steam or electricity. Gives concentrated vapor at only 188°F. Specific heat less than ¼ that of water.

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**STABLE**—Neutral stabilizer gives protection not only in the liquid but also in the vapor.

**ECONOMICAL**—Completely re-usable after distillation. And whether you buy by the drum or the carload, *you pay no extra premium.*

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NIALK Caustic Soda • NIALK TRICHLORethylene • NIAGATHAL® (Tetrachloro Phthalic Anhydride)

### Wax, Sugar Cane—Zirconium Oxychloride

Wax, sugar cane, dom., ref'd, slabs, works..lb. .75 - .80
spot ..lb. .77½ - .82½
White lead (see Lead, white).
White pine bark, rossed, bls.....lb. .20 • —
White precipitate, USP powd., dms., lb. 5.00 • —
Whiting (see calcium carbonate).
Wild cherry bark, thin, natural, bls..lb. .18 - .20
rossed, bls..lb. .23 - .24
Ginger (see Snake root, Canada).
Witch hazel bark, bls..lb. .14 • —
leaves, bls..lb. .19 • —
Woodflour 40 mesh bulk c.l., works, East ton 32.00 • —
t.c.l., same basis ton 36.80 • —
60 mesh, bulk, c.l., same basis..ton 37.00 • —
t.c.l., same basis ton 42.00 - 45.00
80-100 mesh, bulk, c.l., same basis ton 45.00 - 50.00
t.c.l., same basis ton 51.75 - 57.50
Woodflour in bgs. extra, returnable.
Woolfat, crude (see Degras).
USP (see Lanolin)
Wormseed, American, bgs.....lb. .30 • .35
Levant, bgs .....lb 4.25 4.50

## X

Xylene (see Xylol).
Xylenol, cryst., 56°-58°C., m.p., ref. dms., l.c.l., works, frt. equald. 45°-47°C., dms., c.l., same basis. lb. .212 • —
l.c.l., same basis.....lb. .215 • —
tanks, same basis.....lb. .199 • —
Xylenol, cryst., fractions, over 7°C., m.r., except meta, dms., c.l., same basis..gal. 1.31 • —
l.c.l., same basis....gal. 1.34 • —
tanks, same basis....gal. 1.20 • —
meta fraction, over 7° C., dms., c.l., same basis..gal. 1.46 • —
l.c.l., same basis.....gal. 1.49 • —
tanks, same basis.....gal. 1.35 • —
Xylidins, mixed, dms.....lb. .39 • .50
Xylol, coaltar, industrial, tanks, works
Bethlehem, Pa. .....gal. .35 • —
Birmingham district..gal. .32 • —
Chicago district.....gal. .35 • —
Cleveland district.....gal. .35 • —
Geneva, Utah.....gal. .27 • —
Johnstown, Pa. .....gal. .33 • —
Lackawanna, N. Y...gal. .35 • —
Lone Star, Tex .....gal. .35 • —
Lorain, Ohio.....gal. .33 • —
Minnequa, Colo.....gal. .34 • —
Philadelphia, Pa.....gal. .36 • —
Pittsburgh district.....gal. .32 • —
Sparrows Point, Md..gal. .35 • —
Terre Haute, Ind ...gal. .35 • —
Youngstown, O.....gal. .32½ - —
Petroleum, indust., tanks, Albany, N. Y...gal. .35 • —
Bayonne, N. J. .....gal. .35 • —
Baytown, Tex. .....gal. .33 • —
Chicago, Ill.....gal. .35 • —
Philadelphia, Pa.....gal. .35 • —
Providence, R. I.....gal. .35 • —
Wood River, Ill.....gal. .35 • —

## Y

Yara yara, cns.....lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 int'l B units per gram, 100-lb. dms lb. .47 • —
90 int'l B units per gram, 100-lb. dms lb. .52 • —
200 int'l B units per gram, 100-lb. dms lb. .56 • —
300 int'l B units per gram, 100-lb dms lb. .60 • —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul lb. .35 • —
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below
Benzidin, AAA, bbls., dlvd...lb 1.91 • —
AAOT, bbls. .....lb. 2.15 • —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies. lb. 2.65 • —
lithopone all shades, bbls., frt. alld., E of Rockies lb. 1.20 • —
Cadmium yellows, Los Angeles, and San Francisco ex whse. 1c. per lb. higher.
Chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .31 • —
Dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss., N. C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Yellow, Hansa, 10 G, bbls., same basis, chrome..lb. 2.15 • —
G pigment, bbls.....lb. 1.91 • —
Iron oxide, natural, French basis as chrome..lb. 2.15 • —
t.c.l. .....lb. .05½ - —
Peruvian type, bgs., t.c.l. lb. .038 • —
pure, bgs., c.l., works.....lb. .10½ - —
t.c.l., works .....lb. .10¾ - —
Mercury oxide, bbls., 1,000-lb. lots. lb. 4.15 • —
smaller lots.....lb. 4.17 • —
Ocher (see yellow iron oxide, natural).
Zinc (chromate), bbls., dlvd. lb. .25 • —
basic, dlvd. .....lb. .30 • —
Yerba santa leaves, bls.....lb. .40 • —
Yohimbine hydrochloride, bots., tins. oz. 4.75 - 5.25

## Z

Zein, bgs., 30,000-lb. lots, works..lb. .38 • —
1,000 to 30,000-lb lots, works..lb. .40 • —
smaller lots, works.....lb. .43 • —
Zinc acetate, tech., bbls., dms., works..lb. .27 • —
NF VIII, dms.....lb. .53 • —
Borate, bgs., c.l., dlvd. E ....lb. .192 • —
t.c.l., dlvd. E .....lb. .203 • —
Carbonate, tech., rubbermakers, bgs., c.l., works lb. .14½ - —
t.c.l., works.....lb. .15 • —
Chloride, NF, gran., dms.....lb. .42 • —
precipitated, powd., dms lb. .26 • —
solution, 50%, dms., c.l., works. 100 lbs. 5.50 • —
t.c.l., works.....100 lbs. 6.10 • —
tanks, works.....100 lbs. 4.85 • —
tech., fused, dms., c.l., works 100 lbs. 10.10 • —
t.c.l., works.....100 lbs. 10.60 • —
gran., bbl., dms., c.l., works 100 lbs. 10.60 • —
t.c.l., works .....100 lbs. 11.00 • —
Chromate (see Yellow zinc).
Cyanide, kgs., 1,000-lb. lots or more, works..lb. .523 • —
smaller lots, works.....lb. .543 • —
Dust, pigment, bbls., c.l., works. lb. .13¼ - —
t.c.l., works .....lb. .14¼ - —
Fluoride, bbls., works.....lb. .49 • .50
Hydrosulphite, dms., c.l., frt. alld. lb. .21½ - —
t.c.l. .....lb. .22 • .37½
Iodide, NF, jars.....lb. 5.25 • —
Laurate, bbls. .....lb. .45 • .46
Metal, slabs, E. St. Louis.....lb. .10 • —
Naphthalene, liquid, 8%, Zn, dms., frt. alld..lb. .24½ - —
10% Zn, dms., frt. alld... lb. .30 • —
Oleate, fused, bbls.....lb. .36 • —
Oxide, pigment, American process, lead-free, bgs., c.l., dlvd..lb. .13½ - —
t.c.l., dlvd .....lb. .14½ - —
leaded 35%, bgs., c.l., dlvd. lb. .14 • —
t.c.l., dlvd.....lb. .15 • —
50%, bgs., c.l., dlvd..lb. .14½ - —
t.c.l., dlvd.....lb. .15½ - —
French process, com'l green seal, bgs., c.l., dlvd..lb. .15¼ - —
t.c.l., dlvd.....lb. .16¼ - —
red seal, bgs., c.l., dlvd lb. .14¾ - —
t.c.l., dlvd.....lb. .15¾ - —
white seal, bgs., c.l., dlvd..lb. .15¾ - —
t.c.l., dlvd.....lb. .16¾ - —
USP, ctns., c.l., dlvd.....lb. .16¾ - —
t.c.l., dlvd.....lb. .17¾ - —
Zinc oxide Pac. coast prices 1c. higher.
Phenolsulphonate, NF, gran., dms. lb. .39 • —
powd., dms. .....lb. .42 • .49
Resinate precip., dms., frt. allo. lb. .26¾ - —
Silicofluoride, bbls., works lb. .12 • .13
Stearate, tech., USP, ctns., c.l. lb. .37 • —
ton lots .....lb. .36 • —
smaller lots.....lb. .39 • —
Sulphate cryst., 22% Zn, bgs., c.l., works, frt. alld. 100 lbs. 7.40 • —
t.c.l., same basis 100 lbs. 7.90 • 9.90
flake, 25½%, Zn, bgs., c.l., works .100 lbs. 6.55 • —
t.c.l. works.....100 lbs. 6.90 • —
36%, Zn, bgs., c.l., frt. alld. 100 lbs. 7.90 • 8.05
t.c.l., same basis..100 lbs. 8.65 • 8.80
Zinc sulphate in bbls. 40c higher.
USP, gran., dms..... lb. .26 • —
Sulphide, pure, bgs., c.l., dlvd lb. .2530 - —
fluorescent, fib., dms., less than 1,000-lb. lots, works..lb. 1.10 • 1.90
phosphorescent fib., dms., less than 1,000-lb. lots, works. lb. 1.85 • 2.50
Undecylenate, dms..... lb. 2.25 • 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 9.05 • —
t.c.l., works..... 100 lbs. 9.45 • —
Zinc-cadmium sulphide, fluorescent fib., dms., less than 1,000-lb. lots, works..lb. 2.10 • 2.90
Zinc-calcium resinate, dms., c.l., works lb. .1150 - .1360
t.c.l., same basis .....lb. .1220 - .1400
Zinc-formaldehyde sulphoxylate, basic, dms., c.l. lb. .25½ - —
t.c.l. .....lb. .26 • .41¼
normal, dms., t.c.l. works lb. .53 • —
Zircon (G), granular, bgs., c.l., works..lb. .03½ - —
5 tons to c.l., works....lb. .03⅝ - —
1 ton to 9,999-lb. lots, works. lb. .04 • —
smaller lots, works.....lb. .04½ - —
milled, bgs., c.l., works.....lb. .04½ - —
5 tons to c.l., works...lb. .04⅝ - —
1 ton to 9,999-lb. lots, works. lb. .04⅝ - —
500 to 1,999-lb. lots, works. lb. .07½ - —
Zircon (G) in barrels, 1c. higher.
Zirconium acetate, 13% sol $ZrO_2$, c.l., 30,000 lbs. minimum, works..lb. .23 • —
Carbonate, basic, cake bbls., works lb No prices.
Hydride, cns., works.....lb. 7.25 - 11.50
Nitrate, dms., ex whse .....lb. 4.50 - 7.00
Oxide, 92½%-99%, white, grd., bbls., or bgs., works..lb. 1.50 • —
lump electric-fused, bgs., c.l., works..lb. .44 • —
5-ton lots, works..lb. .44½ - —
1 ton to 9,999-lb. lots, lbs., works..lb. .45 • —
500 to 1,999-lb. lots, works lb. .45½ - —
smaller lots, works. lb. .48 • —
milled, electric-fused, bgs., c.l., works..lb. .59 • —
5-ton lots, works..lb. .59½ - —
1 ton to 9,999-lb. lots, works..lb. .60 • —
500 to 1,999-lb. lots, works lb. .16½ - —
smaller lots, works. lb. .63 • —
Oxychloride, cryst., ctns., 5-ton lots, works..lb. .35½ - —


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The following list of Metasap products, and brief summary of applications, indicate the wide range of industries served by Metasap and the remarkable versatility of Metasap Metallic Soaps.

| COMPOUND | CHEMICAL TYPE | MELTING POINT | MOISTURE | WASHED ASH | SOLUBLE ASH | FREE STEARIC ACID | FINENESS | SOLUBILITY | APPLICATIONS |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum Stearate GM | Aluminum | 155°C. | <1.0% | 10.0% | 1.0% | 6.0% | 95%-200 mesh | B*, MS*, P* | A-1-2-4-5; B-1; G-1 |
| Aluminum Stearate R | Aluminum | 145°C. | <1.0% | 8.0% | 0.6% | 10.0% | 95%-200 mesh | B*, MS*, P* | A-1-2-3-4-5; B-2; D-1-2 E-2; F-2; H |
| Aluminum Stearate V | Aluminum | 100°C. | <1.0% | 6.0% | 0.6% | 25.0% | 98%-200 mesh | B*, MS*, P* | E-2-3; F-1; G-2 |
| Aluminum Stearate XX | Aluminum | 115°C. | <1.0% | 7.0% | 0.5% | 15.0% | 95%-200 mesh | B*, MS*, P* | F-1 |
| Metasap 537 | Aluminum | 160°C. | <1.0% | 10.0% | 1.0% | 5.0% | 90%-200 mesh | B*, MS*, P* | A-1; E-1 |
| Metasap 569 | 30% Aluminum Solution | — | — | — | — | — | — | — | A-2; D-2 |
| Metasap 571 | Aluminum | 100°C. | 1.0% | 6.0% | 1.0% | 10.0% | 80%-200 mesh | B*, MS*, P* | D-2 |
| Metasap 579 | 30% Aluminum Solution | — | — | — | — | — | — | — | A-2; D-2; F-2 |
| Metavis 540 | Aluminum | — | <1.0% | — | — | — | — | B*, MS*, P* | A-1 |
| Metavis 543 | Aluminum | — | <1.0% | — | — | — | — | B*, MS*, P* | A-1 |
| Metasap 598 | Aluminum | 160°C. | <1.0% | 9.8% | 1.0% | 5.0% | 99%-200 mesh | B*, MS*, P* | A-1; E-1 |
| Barium Stearate | Barium | 160°C. | 0.5% | 27.0% | 1.0% | — | 100%-200 mesh | Insoluble | A-1-3; B-1; C |
| Calcium Stearate | Calcium | 150°C. | 2.5% | 9.5% ash | — | — | 100%-325 mesh | Insoluble | A-3; B-1-2-3; D-1-2; E-2; H |
| Lead Stearate | Lead | 100°C. | 2.0% | 28.0% (Pb) | — | — | 99%-325 mesh | Insoluble | B-1-4; C |
| Lithium Stearate | Lithium | 220°C. | <1.0% | 12.5% (Crude) | — | — | 95%-325 mesh | B*, MS*, P* | A-1-3; B-1; E-1 |
| Magnesium Stearate | Magnesium | 145°C. | 2.5% | 8.0% | 0.6% | — | 100%-325 mesh | Insoluble | B-1-3; D-3; H |
| Zinc Stearate | Zinc | 115°C. | <0.5% | 15.5% | 0.5% | — | 100%-325 mesh | Insoluble | A-2; B-1-4; C; E-3; F-1; H |
| Zinc Stearate USP | Zinc | 119°C. | <0.5% | 15.0% | 0.3% | — | 100%-325 mesh | Insoluble | B-1-4; E-3; F-1 |
| Metasap 546 | Zinc | 118°C. | <0.5% | 15.5% | 0.3% | — | 100%-325 mesh | Insoluble | B-4 |
| Metasap 574-A | Zinc | 118°C. | <0.5% | 15.5% | 0.5% | — | 100%-325 mesh | Insoluble | A-2; B-1-4; C; E-3; F-1; H |
| Metasap 576 | Zinc | 117°C. | <0.5% | 15.5% | 0.5% | — | 100%-325 mesh | Insoluble | A-2; B-1-4; C; E-3; F-1; H |
| Aluminum Palmitate | Aluminum | — | — | — | — | — | — | — | A-2-5; D-2; G-1 |
| Zinc Palmitate | Zinc | — | — | — | — | — | — | — | F-1; G-1 |

*Solubility Key: B-Benzol, MS-Mineral Spirits, P-Paraffin Oil, *-Gels.*

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**APPLICATIONS:**

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2. paints
3. plastisols
4. waxes
5. printing inks

(B) for **LUBRICATING**
1. plastics (powders)
2. wire drawing compounds
3. pharmaceuticals (tablets)
4. rubber tubes & sheeting

(C) for **STABILIZING** vinyl resins

(D) for imparting **WATER REPELLENCY** to
1. textiles
2. building materials
3. hygroscopic powders

(E) to retain **TRANSPARENCY** in
1. greases
2. waterproofing materials
3. lacquers and varnishes

(F) for **FLATTING**
1. lacquers and varnishes
2. paints

(G) for **SUSPENSION** of
1. pigments
2. graphite

(H) as **BINDERS** in powder metallurgy

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## *Outlawing Diseases*

It is not at all a simple matter to grasp the full significance and connotation of the purpose of a congressional committee on commerce to delve into the serious matter of coping with dread diseases. Under the peculiar system—or whatever—of allotting subjects among committees and other governmental units, the house committee on interstate and foreign commerce has the handling of legislative aspects of health. Just what those are is not clear: the ancient reformatory maxim, "There ought to be a law agin it," does not seem to be applicable. Diseases cannot be prevented or cured by legislative prescription, and it is difficult to conceive how legislation can help, especially by way of commerce, in the application of research and practice which, at best, have some promise with relation to the solution of problems of health. It would seem that the study of the particular problem of the dread diseases would best be left to the Department of Health, Education, and Welfare without legislative interference. The legislative role would come up out of what such a study determined to be desirable. The commercial angles might include interstate quarantines and certainly would involve interstate commerce in remedial and prophylactic agents.

That is one reason why the drug industry should become adequately prepared to take its necessary and deserved large part in the hearings to be held by the congressional committee. Another reason is that the move may quite well be the first step in a new scheme for the nationalization, or governmentalizing (popularly called socialization), of health service. The chairman of the health-commerce committee says:—

**It now seems most appropriate to find out just where we are, where we are going, and what additional assistance through legislation or otherwise may be necessary to hasten the amelioration of these dreadful diseases.**

It may be possible for a congressional committee or congress to find out those desirable things; but to do so, it will have to have a great deal of specific assistance from those who have, at least, some knowledge in the matters involved. There is an appalling lack of agreement with respect of any one of the dreadful diseases among those who, with relevant ability, have devoted much study to the problems they present. It is significant that the better qualified the students, the more cautious they are in their defining of what may be called progress. The matter of polio vaccine, for example, has not been settled to the satisfaction of those who know most about the needs in that direction. Certainly the distribution of the globulin, more or less because of governmental participation, has been far from satisfactory in any respect.

It is not possible to prevent or to cure disease by law. There are now in existence several institutions well qualified to do any necessary studying of the problems presented by the dread, uncontrolled diseases—they are doing that studying: The National Foundation for Infantile Paralysis will spend $7,500,000 on a new anti-polio vaccine program next year. The assistance which should be provided in these movements would best be other than legislative—unless that were appropriations without strings.

## *'Free' Goods Legalized*

Going back to the stand of federal attorneys fifteen years ago, the Federal Trade Commission has reversed its five-year position on the offering of free goods as an inducement to purchase others. The commission has held since 1948 that the use of the term, "free," with reference to an article given without additional cost to purchasers of other articles was illegal because unfair. One of its cases on that basis had to do with the offer of a book club, and its order against the use of the term in that case has been upheld by the Supreme Court of the United States. Ten days ago, the commission in another book club case dismissed a similar charge and held that a book given for nothing to attract new members to the club is free. In 1937, two federal attorneys, both now justices of the supreme court, made the argument that "genuine offers to give something away free of charge in order to induce a person to buy something else are not unfair."

Businessmen must not be too elated over the FTC legalization of gift-giving. For one thing, it does not go "if all the terms and conditions are not clearly stated in the advertising" (or other offering); "if the price of the other article which the buyer must purchase is not the ordinary selling price, or the article is of lower quality." The term, "free," must be used honestly and not, as the commission puts it, "as a device for deceiving the public."

This ruling doubtless will add further impetus to the already fast-growing revival of the ancient merchandizing practice of giving something "free" with a "pound of tea." But, it will still be necessary under the law to stay away from the companion practice of upping the price of the tea for the transaction. Also, it is quite likely that, if the free goods practice gets colossal, FTC will again reverse its position in the other direction. A little rope is a good thing—if it is kept where it belongs.

## *Chemistry for Cotton*

Cotton's position as king in the national economy, even in the regions of its erstwhile unquestioned reign, is like that of most kings and the like in human affairs. It is somewhat insecure. Again as with human kings, the reasons are various. The public news is full of cotton items all the time—and so are the agenda of political planners. The relationships of the two circumstances are whatever one desires to make them. But, some of the news and commentaries deserve more than passing or political thought. Four recently appearing items should be taken as a lesson to be studied—and learned—by all who do not wholly subscribe to the idea of a politically expedient economy.

The four articles in question had these descriptive headings:—"Cotton Crop Estimate Up, Surplus Seen," "Cotton Control, Next?," "Economist Cites Support-Plan Flaws," "Chemistry Seen Aiding Cotton Use."

The first heading sets forth a problematical probability in consequence of which the condition raised by the second heading would be inevitable, the agricultural economic philosophy of this country being what it has been, is, and undoubtedly will be. The third heading states an unquestionable fact—support plans [illegible] full of flaws and failures, as the costly surpluses at government expense clearly show.

That fourth heading presents nothing new. It offers a promising possibility. And the best way of solving problems, in economics or elsewhere, is by way of the developing of relevant possibilities.

Chemistry, in the areas of rayon and other modified fibers, and in those of really synthetic fibers, has made King Cotton's throne at least somewhat wobbly. But, as the technical director of the National Cotton Council of America has said, "chemical modification to impart specialized characteristics is possible and opens new vistas for the cotton industry."

At least as much can be done by way of physical advances in the production of cotton textile fabrics; that area of development has shrunk, rather than expanded, in the current century. But, there is more promise of profitable progress via the chemical route, it seems. The cotton folks, from planter to weaver, should get into close collaboration on the bigger and better use of the material in which they are interested. They have quite able technical units, both physical and chemical, which can tell them all much that it will be good for them to know—if made use of. There is, chemically speaking, acetylation, and cyanoethylation, and aminization. There can be others—in all of which good assistance and advice can be got, and would be offered by those units of the chemical industry which know very much about cotton things that are not getting the recognition which they deserve.

Cotton needs chemistry. It can get it quite readily. And certainly the result of the getting together could and would be as interesting and as promising, albeit of a different nature, as that which is helping the similarly tottering silk industry of Japan, where silk powder is a new product, being offered as a component of face powders and other cosmetics.

## *For the Bookshelf*

**A PRIMER OF PUBLIC RELATIONS FOR THE PHARMACEUTICAL INDUSTRY. By the public relations committee of the American Pharmaceutical Manufacturers' Association. Cloth, boxed; ninety pages, 8 x 9½ in. New York: APMA. $3 to association members; $4.50 to non-members.**

**This is a fine example of a much-needed job thoroughly well done. Pointed specifically at the very specialized problems posed by public relations in the drug field, the primer, as APMA readily admits, doesn't claim to contain all the answers. That would be too much to expect from a single book or a whole library full.**

**What the primer does do for the industry is to take what it rightly calls "a first step and a sound step in the right direction," pinpointing some of the key problems which must be faced. How best to go about keeping the public accurately and swiftly informed of new developments? How to explain the role of research and its relation to the price of drugs? How to handle properly complaints about pharmaceutical products? How to maintain friendly relations with communities where company plants are located?**

**Many of these questions are no different from those which confront other industries. But the pharmaceutical industry, manufacturing as it does products which profoundly affect public health and well-being, has some weighty obligations. Reports on new drug developments, for example, must be made quickly and accurately, but great care must be taken that they do not mislead. In short, a very careful balance must be struck.**

**How to achieve this balance is the aim of the primer. This it does in a number of informative and well-written chapters which run the gamut of such down-to-earth subjects as how to prepare news releases, the constructive approach to complaints and suggestions for improved annual reports.**

**Because it does not attempt too much at one bite and because it sticks to fundamentals, the APMA public relations primer deserves a prominent place on the desk of every executive in the pharmaceutical industry. Though directed primarily to drug makers, there is much of value in the book for chemical producers as well. As such, we unreservedly commend it to all.**

**Copies may be ordered from Dr. J. O'Neill Closs, American Pharmaceutical Manufacturers' Association, 30 Rockefeller plaza, New York 20.**

## *Washington Talks*

*—Continued from page 5*

**pointment earlier in the year because Mr. Carretta has been joining with the Republicans in overturning some of the past policies of the commission.**

**Mr. Spingarn left government much in the manner expected—with a blast at the present administration of the commission. He said that the commission has lost its independent status because of executive domination by reason of Presidential selection of the chairman and the reorganization of commission administrative functions which placed most of the staff under the chairman. He said that the commission might well be abolished.**

### NF Tradenames Question

**There appears to be some doubt in drug industry circles over the advisability of the plans of the National Formulary to include an index of tradenames of the various NF products in its forthcoming edition. The USP revision committee is considering a similar index for USP products also, but hasn't decided definitely on it as yet.**

**The fear in some drug quarters is that the index of tradenames for a given NF preparation would be an invitation to a pharmacist to substitute one item for another in filling prescriptions, in spite of any cautionary statement to the contrary which the NF might make in the list.**

**As one well-known figure in the drug industry remarked recently:—the idea of urging the druggists not to use the list of tradenames as a means of substituting one brand for another, reminded him of the prohibition days when grape juice producers would stick a label on the keg cautioning buyers not to add yeast and sugar to the juice and store in a warm place because it would turn into wine.**

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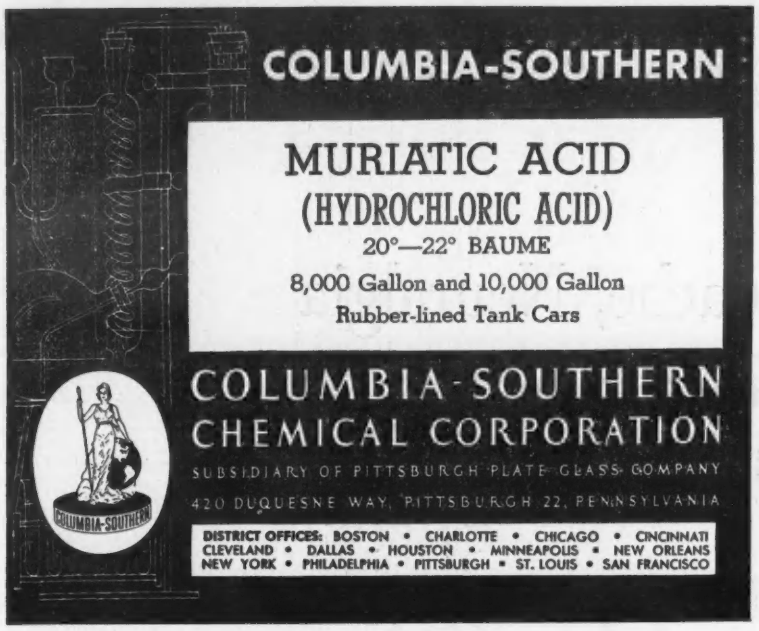
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# Heavy Chemicals

Price trend continued downward last week, the index showing 98.27, compared with 98.35 in the preceding period. The decline in the price of quicksilver more than offset the advances in tin metal and tin salts. Lower spot prices named for quicksilver were believed to be temporary by some trade interests who asserted that if the dock strike is declared this week, the picture will change rapidly. The threatened port disturbance brought out some heavy buying of tin by dealers. The term "scare buying" was heard in several sources but it was apparent that dealers were not going to be caught short of stocks just in case. The tin based chemicals responded readily to the advance in tin metal. Producers were not in a position to make immediate shipments of potassium stannate as mechanical difficulties have interrupted plant production. Active demand for tin oxide has kept output of tin sulphate down and short shipments have been in progress.

Shipments of heavy tonnage chemicals, while off in spots, made a favorable showing for September. According to producers, the overall movement compared favorably with the preceding month. Individual sales were not of extensive character and it appeared as though consumers were not inclined to take an investment risk of building up inventories at the present time. Buyers have experienced no difficulty in securing all the caustic soda, chlorine and soda ash for spot shipment and appeared saitsfied to take on stocks as necessity dictates. Increased activity at rayon mills resulted in improved shipments of carbon bisulphide. Carbon tetrachloride found a steady outlet with the loss of the dry-cleaning trade neutralized by the demand for freon, chemicals and affiliated products. Glacial acetic acid held its own throughout the month. Passing of the weed control season has placed sodium chlorate in an improved supply position. Anhydrous ammonia has also improved its supply condition by the relaxation of agricultural demand and some dampening of shipments for orlon manufacture.

Paper and board production during July amounted to 2,042,196 tons, according to the Bureau of Census. This is about a 16 percent increase over the tonnage of 1,761,982 produced in July a year ago. The output of paperboard grades during this month, amounting to 929,621 tons, reflected an increase of 20 percent over the production of 774,960 tons reported during July, 1952. Paper production, amounting to 872,285 tons registered a 14 percent increase from the 765,733 tons produced in July a year ago.

Paper production based on percentage of six-day capacity was 98.5 percent for the week ending September 19, according to the American Paper and Pulp Association. This compared with 76.9R in the preceding week and 86.1 in the corresponding week of 1952.

**Ammonia Anhydrous**—Passing of the agricultural season and some softening in the industrial demand has eased the tension from the market. Increased production has also tended to improve the supply position. Prices have remained firm at $85 to $88 per ton for tankcars, according to location of plant.

**Ammonium Bicarbonate**—Moving to cracker bakeries in fair quantities. Prices steady at former level. Stocks adequate to meet current requirements.

**Ammonium Thiocyanate**—Demand fairly active over the past month for technical crystals. Producers quote 18c. per pound for carlots and 22c. for l.c.l. at the works. It is stated this chemical has found use in dyeing textile fibers.

**Calcium Chloride**—Some tail-end sales for highway dust treatment due to the prolonged dry weather. Inquiry is increasing for ice control and prospects appear to favor a normal consumption if the winter is seasonally cold. Present supply comfortable with prices steady.

**Carbon Bisulphide**—According to producers, the market was slightly out of balance early in the month due to a slackening off rayon production. Last week activity increased and surplus stocks were absorbed. While current supplies are not excessive, consumers appeared to cover requirements without difficulty.

**Chlorine**—Consumers are not finding stocks a problem at present. Contract withdrawals are not running full and spot material continued available. Metallic chlorides, hypochlorites, solvents and other affiliated industries are said to be calling for the major part of current production. A new maker is expected to enter the market in October.

**Copper Sulphate**—Absence of blight occasioned by hot dry weather during August, eliminated the hope of last minute sales for agriculture and labeled the season a poor one for pesticide business. Florida has showed a little life over the past week but buyers are not inclined to take any inventory risk and only purchase for actual needs. Closing of several metal mines in the Pacific coastal area has dampened the western industrial demand, otherwise it has continued active. The export situation revealed that Brazil has been in the market with foreign sellers offering competition to domestic producers.

**Glauber's Salt**—Market situation steady with producers stocks adequate but not excessive. Demand fair mostly for use in dyestuffs and detergents.

**Iron Chloride**—Sales for water purification described as normal with immediate and prompt shipments, commanding the most attention. Stocks reported adequate.

**Phosphorus Compounds**—Demand not unusually active but considered fair. Production has kept producers' stocks comfortable and immediate shipments continued available.

**Potash, Caustic**—Remained rather quiet over the past month although the sales volume has shown up better than in August. Demand has been spotty and not of a character to tighten supplies. It was stated that chemical manufacturers have been prominent in the month's buying movement of the dry forms with some interest from the textile mills in liquid.

**Potassium Carbonate**—Market conditions are similar to those noted in caustic potash. Current shipments are of better volume than noted in July and August when many of the glass plants closed down for a vacation period. There is no shortage of stocks at present and producers are in a position to make prompt shipments.

**Potassium Chlorate**—Sales to match plants are now about normal for this period of the year and producers appear satisfied with the present movement. There is no shortage of stocks and prompt shipments are available at the former price level.

**Potassium Stannate**—Priced higher in line with tin. Shipments delayed on account plant trouble, mechanical. Producers named 63.9c. to 70.5c. per pound, freight allowed east. Prices are based on tin at 83c. per pound.

**Potassium Thiocyanate**—Very little activity at present. This material does not move in large quantities. Producers quote 79c. per pound for one barrel and 77c. for two barrels f.o.b. the works.

**Soda Ash**—Shipments seem to be holding up well and the movement throughout the month is said to compare favorably with August. Production has been adjusted to maintain a favorable supply position and the diversified use of light ash has kept the outlet fairly active. Dense ash has moved steadily to glass plants. It was stated that the output of soda ash can be increased if necessity develops, but at present the market does not seem to be far out of balance.

**Soda, Caustic**—Not materially different than conditions noted on soda ash. Production is fully up to current demand and then some, while shipments have ontinued fair with no sign of urgency in demand. Stocks of the dry forms as well as the liquid were offered for immediate shipment at the close of the month.

**Sodium Chlorate**—Ending of demand for the season's weed control requirements has checked the movement to that consuming source and the supply position has shown improvement. The inquiry for various industrial uses was described as good

*For Late Market Developments, See Page 4*

## *Price Trends*

**Advanced**

Potassium stannate, .04c. per lb.
Sodium stannate, .05c. per lb.
Tin chloride, .06c. per lb.
Crystals, .05c. per lb.
Sulphate, .05c. per lb.
Tetrachloride, .05c. per lb.

**Reduced**

Quicksilver, $3 per flask.

**Comparative Price Indexes**

(100=1949 average)

| Last week | Prev. week | Last month | Sept. 25, 1952 |
|---|---|---|---|
| 98.27 | 98.35 | 98.23 | 95.13 |

*(For Current Prices see page 9)*

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**Sodium Formate**—Demand moderate for use in chemicals, leather and plating. Stocks adequate to meet requirements with prices sustained at $7.60 per 100 pounds in carlots and $8.65 in less f.o.b. the works.

**Sodium Oxalate**—Market situation quiet with price conditions steady. Activity is spotty and confined to small lots while supply has remained adequate.

**Sodium Stannate**—An advance in tin metal was promptly reflected in higher prices for stannate. Producers quoted 47c. to 52.4c. per pound, freight allowed east. Prices are based on tin at 83c. per pound.

**Tin Chemicals**—Prices made fractional advances last week under the influence of higher tin. Producers quoted tin chloride at 81.1c. to $1.019 per pound works, crystals 71½c. to 81½c. works, sulphate 87.1c. to 89.1c. per pound works and tetrachloride at 71c. to 72c. per pound works. Prices are based on tin at 83c. per pound.

## Acids

**Acetic**—Glacial continued to command a fair amount of interest from consumers and the overall price position remained steady. Production has kept the supply condition adequate to meet current requirements.

**Formic**—Demand from the leather and textile industries is described as bood with some producers receiving more orders than they can readily handle. The price position is firm with no changes to record.

**Hydrochloric**—Not in as free supply locally as some of the other acids but adequate to meet current wants. Demand has been well diversified including the steel galvanizing, paper, leather, glass and food industries.

**Nitric**—No scarcity of stocks at present. Demand for insecticides and nitrates for agriculture has shown seasonal relaxation but it is stated that inquiry for explosives, pharmaceuticals and photo engravings is holding up well.

**Oxalic**—Stocks remained adequate for immediate shipment. Miscellaneous inquiries for bleaching, cleansing and other uses appeared to show a slight increase over the preceding month.

**Sulphuric**—Shipments moving out steadily without impairing the favorable supply position. Miscellaneous demand has averaged good with steel mills, enameling plants and oil refineries all interested in the current movement.

## Nonferrous Metals

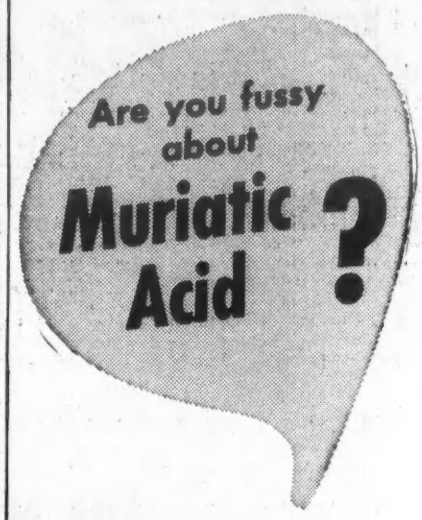
**Aluminum**—July production of primary aluminum was placed at 218,570,626 pounds by the Aluminum Association. June output was 208,303,690 pounds and in July last year 156,735,591 pounds were produced. July production of foil, including foil in lamination aluminum content only was 9,405,931 pounds. The sheet and plate output was 107,237,309 pounds and extruded products totaled 26,296,499 pounds. Production of castings showed 24,704,378 pounds and tube drawn and welded 4,765,761 pounds. There was also 18,553,159 pounds of rod and bar, rolled and drawn, produced.

**Copper**—Domestic production of refined copper during August was placed at 106,749 tons by the Copper Institute. This compares with 112,570 in July. Deliveries to fabricators in August amounted to 106,985 tons, against 104,481 in the preceding month. Refined stocks on August 31 were 78,825 tons, compared with 77,100 on July 31. Crude production during August was 77,136 tons with a daily average output of 2,488 tons.

Market situation relatively quiet. Sales for September are estimated slightly over 80,000 tons while October bookings are said to total around 15,000 to date. Interest was still focussed on Washington where negotiations are progressing in reference to the government's purchase of a sizeable quantity of Chilean copper. Electrolytic closed the week at 29c. to 30c. per pound delivered Valley basis.

**Lead**—No important change in market conditions last week. The late reduction did not bring in any unusual inquiries although sales for the week were said to be of larger volume than in the preceding period. The market was quoted at 13.50c. per pound for the common grade at New York and at 13.30c. at St. Louis. Stocks continued ample to meet demand.

**Magnesium**—Prodution of primary magnesium ingot in August was about 15 percent below June, 1953, and about 35 percent below July, 1952. Production in August, 1953, was 6,265 tons. This level of about 6,000 tons per month will probably be maintained for the balance of the year. Shipments of wrought products for the month of July, 1953, increased about 25 percent from June, 1953, and about 12 percent from shipments in the month of July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a year ago. Shipments in July were about the same as in May. The figure for shipments in the month of June, 1953, was abnormally low due to the method of reporting interplant transfers. These figures are released by The Magnesium Association based on information obtained from the Bureau of Census and the Bureau of Mines.

Consumption of primary magnesium in the United States at 27,742 tons during 1952 was 22 percent higher than the quantity consumed in 1951, according to the Bureau of Mines. The increased demand was met by the rise in produtcion, which was 2½ times the production of 1951. The six government-owned magnesium plants which were reactivated during 1951, produced 76 percent of the 1952 output. The remaining 24 percent came from the Dow Chemical Co.'s plant at Freeport, Tex., which had been the sole producer of primary magnesium during the period 1946-50. All magnesium produced at the government-owned plants in 1952 was for defense, and the National Production Authority directed its distribution. By cooperative agreement the Dow Chemial Co., the only private producer of primary magnesium, gave first priority to deliveries of the metal for defense orders. All defense requirements for magnesium were thus met in 1952 as in 1951, without the exercise of mandatory Government control over this critical material.

**Nickel**—Export quota has been placed at 110,000 pounds for the fourth quarter by the Office of International Trade. In addition, a fourth-quarter quota of 20,000 pounds was established for new nickel catalyst, including nickel aluminum types; 20,000 pounds for nickel-chrome electric resistance wire, including insulated wire; 40,000 pounds for nickel and nickel alloy welding rods and electrodes, containing not over 60 percent nickel for cast iron welding, and 20,000 pounds for reagent grade nickel chemicals, nickel salts of organic compounds. The totals are the same as those for the third quarter.

**Quicksilver**—Priced lower at $184 to $186 per flask on spot. The lower prices named brought out more buying interest with a slight increase in purchases. It was admitted that the materialization of a dock strike along the water-front might change the picture appreciably for a temporary period.

*San Francisco, Sept.* 25.—Market activity and buying interest remained quiet with stocks limited. Small lot quotations were lower at $193-$195 per flask.

**Tin**—Priced higher under a deluge of buying orders for prompt shipment occasioned by fear of a dock strike featured the market last week. Trade interests were inclined to view the upward movement as temporary. Late in the week sales were reported at 82c. per pound on spot.

World production of tin concentrates and metal rose sharply in July, the International Tin Study Group reported in Hague last week. Output of concentrates was 11,100 long tons compared with 13,900 in June. Metal production was 16,400 tons against 13,500 in June. A striking increase characterized Bolivian exports of tin concentrates which rose from 2,914 tons in June to 4,082 in July. Production of concentrates in Malaya increased to 4,706 tons and in Indonesia to 3,240.

Figures available thus far for August put Indonesian production at 2,945 tons and that of the Belgian Congo at 1,057. Malayan output of metal in July rose sharply to 5,906 tons and United Kingdom production of 3,289 was also higher. United States output remained constant at 3,000 tons. The Netherlands' output which was 1,708 tons in June is estimated at 2,000 in July. Belgian output declined from 803 tons in July to 652 in August. Stocks in the United Kingdom at the end of July were 9,100 tons and in Malaya 6,000. Belgian stocks were 2,668 tons at the end of August. In the United States stocks at the end of May were 32,766 tons and at the end of June 32,189.

**Zinc**—Buying interest continued spotty. Brass mills were in the market at intervals to cover current wants but there appeared to be no inclination on the part of galvanizers to buy extensively at this time. Prime western closed the week at 10c. per pound East St. Louis and at 10½c. delivered New York.

Secondary zinc recovered in zinc-base products in June was off slightly to 10,596 tons from 10,744 tons in May, according to the Bureau of Mines. Total stocks of all types of zinc scrap at consumers' plants declined for the first time since November, 1952. Stocks at the end of June totaled 25,598 tons versus 26,659 tons a month earlier. Consumption of zinc scrap, however, decreased 8 percent to be the lowest monthly rate at 15,154 tons since September, 1952.

## Monsanto Names Section, Group Heads for Research

Monsanto Chemical Company's central research department in Dayton, Ohio, has announced that Dr. John M. Butler and Milton Kosmin have been made section leaders and that Dr. Joseph E. Fields, Dr. Van R. Gaertner, and Dr. Robert J. Slocombe have been named group leaders.

Dr. Butler joined Monsanto in 1941 and was made a group leader in 1947. Mr. Kosmin was a research chemist with Thomas & Hochwalt Laboratories prior to its acquisition by Monsanto, and was made a group leader in 1947. Dr. Fields has been a research chemist with Monsanto since 1946, and Dr. Gaertner since 1952. Dr. Slocombe has been associated with Monsanto since 1943.

Scott H. Styles has been named assistant manager of Monsanto's phosphate division plant, Monsanto, Idaho. Mr. Styles had been on leave since 1952 from Mound Laboratory, operated by Monsanto, for the Atomic Energy Commission at Miamisburg, Ohio.

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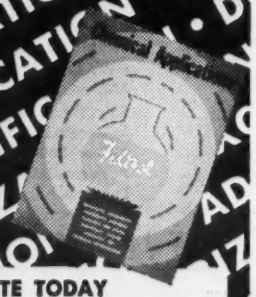

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## Davison Chemical Elects Five to Board of Directors

Five new directors were elected to the board of Davison Chemical Corporation, Baltimore, last week.

The new directors are:—G. L. Hatheway, president and director of the Clifton Conduit Company, Baltimore; Robert B. Hobbs, executive vice-president of First National Bank of Baltimore; W. Griffin Morrel, vice-president and director of Chesapeake & Potomac Telephone Company of Baltimore City; Frederick L. Schuster, business consultant and agriculturist, and Charles E. Wilson, chairman of the executive committee of the board of directors of W. R. Grace & Co., New York.

Election of these directors fills the vacancies caused by the resignations of H. W. Goodall, accepted at last week's meeting, and of B. H. Oehlert, jr., accepted earlier in the year, and brings the board to its full complement of fifteen members.

## Dolmetsch Joins Mathieson

Carl R. Dolmetsch has joined Mathieson Chemical Corporation, Baltimore, Md., in an executive capacity. Mr. Dolmetsch was general manager of the viscose division of Celanese Corporation of America until this division was merged in 1952 into a newly-created textile division. Since then he has been manager of viscose plant operations in the Celanese foreign service division, with headquarters in New York. Mr. Dolmetsch has a background of over twenty-seven years in the synthetic fiber industry.

## Shield Reduces 'Drycrete'

A reduction in the price of "Drycrete," its cement-additive for waterproofing, has been announced by Shield Chemical Corporation, Verona, N. J. According to company sources, increased sales volume and improved production methods combined to enable a reduction from $2.70 per gallon to $1.80 per gallon in drum-lots. Comparable reductions for smaller quantities were also announced.

## *Uranium Ore Price, Bonus*

*—Continued from page 3*

which established a bonus for initial and certain other production of uranium ores from domestic mines delivered under its terms between March 1, 1951, and February 28, 1954, now has been extended through February 28, 1957.

For eligible new mining properties, bonus payments are made on each pound of uranium oxide in acceptable ores delivered to qualified mills or Commission buying stations up to and including the first 10,000 pounds of uranium oxide. For eligible mining properties which produced less than 10,000 pounds of uranium oxide during the period from April 9, 1948, to March 1, 1951, bonus payments are made on the difference between 10,000 pounds of uranium oxide and the number of pounds sold between April 9, 1948, and March 1, 1951.

Bonus payments range from $1.50 to $3.50 per pound of uranium oxide in acceptable ores produced from eligible mining properties, depending on the grade of the ore. Thus, the maximum bonus which may be obtained from production of new mines ranges from $15,000 to $35,000, depending upon the grade of ore delivered.

Bonus payments are made directly by the commission and not by the receiving station or mill, and are in addition to purchase payments made pursuant to ore buying schedules. Before bonus payments are made, the producer must make application to the commission, and the commission must certify that the mine is eligible for the bonus.

## *Trade Briefs*

**Chemical Process Company** has elected H. R. Goff to the board of directors.

**Mathieson Chemical Company's** Curtis Bay plant has received the National Safety Council's Award of Honor.

## *Gen'l Aniline Vice-President*

Matthew W. Gouger has been elected vice-president and director of personnel relations of General Aniline & Film Corporation, New York. Mr. Gouger joined General Aniline in February, 1949, as manager of industrial relations for the General Aniline Works Division. In January, 1950, he was named director of personnel relations for the entire corporation, which post he has held since that time.

## Silica Firm Organized

Cleveland Quarries Company, Amherst, Ohio, has organized Silica Chemicals, Inc., as a wholly-owned subsidiary for the purpose of manufacturing chemical and refractory products. Plans are now being formulated for the production of the company's first product, "Buckeye Silicamix," a cupola lining material.

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## Gibbs Medalist Decries Mass Production Trend in Schools

Mass production policies in many American high schools are preventing the development of enough topflight scientists and engineers to meet the nation's needs, Prof. Joel H. Hildebrand of the University of California, internationally known chemist and educator, charged September 25 as he received the Willard Gibbs medal of the Chicago section of the American Chemical Society.

Primary responsibility for this situation, which he said threatens national safety and progress, must be borne by professional "educationists" who require classroom teachers to stress "social adjustment" instead of intellectual growth, Dr. Hildebrand declared.

The talented young person will have a hard time getting the necessary preparation for a scientific career wherever education is dominated by administrators of this type, he warned, adding, "The fact that so many of them are entrenched in positions of power as principals, superintendents, and in state departments of education makes it futile to hope to improve certain schools and school systems from within. Our only hope lies in the intervention of educated citizens."

## Lilienthal to Address Phila. Chemists' Exposition Dinner

David E. Lilienthal, former chairman of the Atomic Energy Commission, will be the principal speaker at a dinner to be held by the American Chemical Society's Philadelphia section on November 30 on the occasion of the opening of the twenty-fourth Exposition of Chemical Industries. Mr. Lilienthal's topic will be "Technology and the American Future."

The exposition, held every two years, has long been staged in Grand Central Palace, New York, but has been moved to Philadelphia's Commercial Museum and Convention Hall this year because the Palace has been leased to the Bureau of Internal Revenue.

The Philadelphia section's dinner, to be held at Convention Hall, has been arranged to mark the start of the city's first chemical exposition and to welcome visiting chemists, chemical engineers and industrialists. Dr. Crawford H. Greenwalt, president of E. I. duPont de Nemours & Co., Wilmington, Del., will introduce Mr. Lilienthal, and Dr. O. Davis Shreve, section chairman, will preside. Mr. Lilienthal is now board chairman of the Attapulgus Minerals & Chemicals Corporation.

## Solvay Honors Berton, Fifty Years With Firm

Solvay Process Division, Allied Chemical & Dye Corporation, New York, held a testimonial dinner September 23 at the Fireplace Restaurant in that city for Charles Berton on the occasion of his fiftieth anniversary with the company. Mr. Berton, who is a salesman in Solvay's New York sales office, started with the company as an office boy in 1903 at the age of thirteen.

Mr. Berton, still several years away from retirement, was presented with a radio and gift certificate. About twenty-five people attended the dinner, including H. F. Merritt, Solvay sales vice-president; L. B. Gordon, vice-president; John H. Elleman, assistant director of sales, and Fred Harris, New York sales manager.

## Sharples Names Armstrong

Robert A. Armstrong has been appointed Philadelphia district manager for Sharples Corporation. Mr. Armstrong joined the corporation in 1946 and was assigned to the San Francisco office. In 1950, he was brought to Philadelphia as assistant to J. E. Paul, who died September 1.

## Olin Appoints Gagnon

Olin Industries, Inc., East Alton, Ill., has appointed John E. Gagnon to the newly-created position of director of personnel. His headquarters are in East Alton. Mr. Gagnon went to Olin from Bigelow-Sanford Company, New York, where for five years he has been manager of personnel.

### Standards Assoc. Offers Booklet

"Standards Are Your Business," a twenty-four-page booklet defining standards of production and their value as tools of management, appears in a new, revised edition issued by the American Standards Association to emphasize the economic importance of standardization.

The booklet gives the philosophy and objectives of the voluntary standards movement in this country and contains considerable new material, including a section on federal government policy toward industry standards. Included are specific examples of recent savings through standardization effected by leading United States corporations, which are named. Copies are available without charge from the association, 70 East 45th street, New York 17.

## Monsanto Organic Unit Plans Wilmington Office

Monsanto Chemical Company's organic chemicals division, St. Louis, Mo., will open a district sales office in Wilmington, Del., about January 1.

Daniel J. Murphy, now resident salesman at Milwaukee, Wis., will be manager of the new office. Anthony J. A. Bryan, new supervisor of special chemicals in St. Louis, will be assistant district manager.

### Shapiro Leaves First Machinery

Louis J. Shapiro has resigned as vice-president and general manager of First Machinery Corporation, New York, and will shift his activities to the west coast. Mr. Shapiro will locate in Los Angeles and will announce his future plans at a later date.

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## Defense Dept. Names Cairns Deputy Assistant Secretary

Dr. Robert W. Cairns, who recently served as special assistant to the Secretary of Defense on research and development matters, has been named deputy assistant Secretary of Defense in charge of research and development. In this post he will be deputy to Donald A. Quarles, assistant Secretary of Defense in charge of research and development, who was sworn into office September 1.

Dr. Cairns served on the Research and Development Board from July, 1949, until its dissolution on June 30 of this year. At the time of his appointment to the board, he was granted a leave from his post as assistant director of research for Hercules Powder Company, Wilmington, Del., with which he had been associated since 1934.

## Blaw-Knox to Do Survey For Okla. Planning Board

Chemical plants division of Blaw-Knox Company, Pittsburgh, Pa., has been engaged by the Oklahoma State Planning and Resources Board to conduct a survey of the state's natural resources and market potentialities, and compile the facts for use by the board. In a sustained effort to encourage industries to locate their plants in Oklahoma, the board will use the assembled information and conclusions provided by the technical report, in conjunction with basic information from other sources.

## Continental Can Picks Flint

Willard J. Flint has been named products sales manager for steel containers by Continental Can Company, New York. Mr. Flint went to Continental from Geuder, Paeschke & Frey Company, Milwaukee, Wis., where he was general sales manager of the steel shipping container division. He has been active in the steel shipping container field for more than seventeen years.

## Process Plants Service Set Up For Chemical, Process Industry

Process Plants Service, Inc., Elizabeth, N. J., has been organized to provide a complete plant service to the chemical and process industry. The company offers the industry the following packaged services for every plant need:—

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## *Trade Briefs*

**Eureka Machine Company,** 2605 Vega avenue, Cleveland 13, Ohio, has issued a booklet describing its line of drum washers and drum cleaning equipment.

**Russel Gibson,** Geological Survey geologist, will serve as technical adviser for a country-wide minerals exploration program in Tehran, Iran.

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# Agricultural Chemicals

Price trend curved downward last week, the index recording 111.51, compared with 112.03 in the preceding period. Domestic steamed bone meal declined to a new low for the year and the lowest price in over three years. The primary cause for the revision was the withdrawal of buyers for stockfeed use. Castor pomace also slid downward, making a new low for the year. Demand for fertilizer use has not been very active since the turn of the month and there were rumors that Brazil had assumed a more competitive attitude. Demand for dried blood and tankage did not command much attention from the stockfeed trade but the market was not under pressure and closing prices revealed no appreciable change. Poultry farms bought enough menhaden meal to hold the price steady at the late advance. There was no activity in hoof meal at Chicago.

September has not occasioned the pick-up in shipments generally expected for the basic fertilizer chemicals. Aside from ammonium nitrate, where demand is still exceeding production, the tonnage movement has lagged. Producers attribute the backward demand to the summer's severe drought and to lower farm income. While production in most instances has been well sold ahead on contract, withdrawals are light and not up to the level established a year ago. Manufacturers are experiencing a subnormal demand for mixed fertilizer and are staying out of the markets for ammonium sulphate, potassium muriate and normal superphosphate.

### *Price Trends*

**Advanced**

None

**Reduced**

Bone meal, steamed, domestic, $5 per ton.
Castor pomace, $1.50 per ton.

**Comparative Price Indexes**

(100=1949 average)

| Last week | Prev. week | Last month | Sept. 26, 1952 |
|---|---|---|---|
| 111.51 | 112.03 | 111.94 | 113.53 |

*(For Current Prices see page 9)*

## Fertilizer Materials

**Ammonium Sulphate** — Market conditions in both coke-oven and synthetic are relatively quiet, with shipments slow and stocks accumulating. According to trade reports, the demand from mixers is below the seasonal average and it is stated that supplies of finished fertilizer are not moving freely. Last year a prolonged steel strike that ended July 24, 1952, seriously curtailed production of coke-oven sulphate and left a wide gap to be filled. There was no such disturbance this year and at present available stocks of domestic and imported sulphate appear plentiful.

**Bone Meal**—Steamed domestic is priced lower at $55 per ton in bags, carlots, works. Relaxation of stockfeed demand has relieved the market of its chief supporting influence. The current price is the lowest recorded since May, 1950, and compares with a high of $85 established in March, 1952.

**Castor Pomace**—Priced lower at $28.50 per ton, bags, carlots, works, a new low for the year, and the lowest since December, 1949, and compares with a high of $40 in September, 1947. Demand has slowed down. Trade rumors were afloat that foreign producers in Brazil were offering competition.

**Cyanamide**—Making a better showing than some of the other fertilizer chemicals. Production was interrupted earlier in the year by a labor strike but any shortage has since been leveled off. The demand at present from tobacco planters is just about normal.

**Dried Blood**—Absence of selling pressure left the market unchanged, although there was no unusual demand for stockfeed use. Sellers in New York quoted $5.25 per unit of ammonia and Chicago named $5.75.

**Fish Meal**—Menhaden remained steady at the late advance with sales moderate for poultry use. Stocks at present not excessive but meeting the current extent of consuming demand.

**Hoof Meal** — Buyers are temporarily neglecting this market with hardly enough fertilizer demand to test prices. Last sales were at $6 per unit of ammonia, Chicago basis.

**Phosphate Rock** — Slow movement of normal superphosphate is reflected in smaller contract withdrawals from domestic acidulators. Meanwhile, the supply position has improved. No new important sales for export account last week.

**Potassium Muriate**—Has not emerged to any important extent from its former quiet position. While production is sold ahead, mixers show no desire at present to withdraw heavily. It is apparent that too much mixed fertilizer has accumulated at mixing plants.

**Sodium Nitrate**—Continued quiet and steady at the late decline. This is the off season for this chemical for agricultural use and farmers show no inclination to buy ahead. There is no scarcity of stocks in sight and the current inactivity has made it diicult to ascertain if current shipments are normal or below the seasonal average.

**Superphosphate** — Not moving very freely at present and quite in contrast with a year ago at this time when local stocks were tight and fairly tight at Baltimore. According to current trade advises, Baltimore is finding a slight improvement in demand but there is no scarcity of stocks anywhere in the east. Slow shipments are due to the light call from mixers who cannot move their finished material. The severe drought, combined with lower farm income, are reasons attributed for lack of interest in the mixed fertilizer market. Prices of super are holding steady at the former level.

**Tankage**—Sales spotty and not of sizable dimensions with activity confined to the stockfeed trade. Sellers did not alter their views from $5.50 per unit of ammonia New York or from $6.25 Chicago.

### Los Angeles Market

*Los Angeles.*—The local trade was more optimistic over inquiry on the market; although trading was not heavy during the week, the quantity of advance buyer inquiries is indicative of a good season. As in previous seasons, hope is, that immediate trading will follow so as to permit scheduling of shipments in advance. Present market interest has also strengthened the organic materials with firm price increases reported for blood meal and tankage. Domestic fish meal quotations were lower at $2.15 per unit of protein with only limited trading reported.

Ruing prices were:—Ammonium nitrate—$88.30 per ton; domestic, f.o.b. Los Angeles. $89.84 per ton, Canadian material, f.o.b. Los Angeles.

Ammonium phosphate—$80.14 per ton, in bags, 16/20 grade, f.o.b. Los Angeles. $107.64 per ton, in bags, 11/48 grade, f.o.b. Los Angeles. Both Canadian material.

Ammonium sulphate—$55.37 per ton in bags, domestic, f.o.b. Los Angeles. $3 less in bulk. Canadian material same.

Blood meal—$4.75 per unit of ammonia at source.

Bone meal—$64-$70 per ton, imported, 1/65 meal, c.i.f., Los Angeles Harbor. Domestic—$90-$92 per ton, f.o.b. Los Angeles.

Calcium nitrate—$48 per ton, 15½ percent nitrogen, c.i.f., Los Angeles Harbor.

Castor pomace—$42-$44 per ton, f.o.b. Los Angeles.

Fish meals—$2.15 per unit of protein, nominal, domestic, sacked, f.o.b. San Pedro. Imported offered $2.10 per unit, ex-dock, Los Angeles.

Sodium nitrate—$54.50 per ton in 100-pound bags, f.o.b. Los Angeles. $49.50 per ton in bulk.

Superphosphate—$23.70 per ton in bulk, f.o.b. Los Angeles. $4 extra when bagged. Ammonited—$31.50 per ton in bulk, 3/16 grade, f.o.b. Los Angeles. $4 additional when bagged. Triple—$68.50-$72 per ton in bulk, 47 percent a.p.a., f.o.b. Los Angeles.

Tankage—Wet rendered, fertilizer grades, $4 per unit of ammonia f.o.b. producing plant.

## Pesticides

Seasonally quiet at the close of the season after a year of keen competition, small profits and a fair carryover said to be resting mostly in the hands of formulators adjacent to the drought stricken areas. According to trade reports, the revised bid for 200 metric tons of technical DDT for Turkey was closed at 19.50c. per pound, compared with a previous bid of 19.90c. both f.a.s. domestic port. A bid of 20.94c. f.a.s. per pound for wettable 75 percent DDT was accepted for 600 metric tons. The domestic price for technical was unchanged at 23c. There was no important activity in BHC with the price holding at ¾c. per pound. Sales of methoxychlor recorded an increase in volume this season and prospects favor a further expansion in 1954. The price range was steady at 61c. to 64c. per pound for 50 percent, freight allowed.

**Paradichlorobenzene**—No unusual activity at present. The market has drifted into a sort of between seasons affair. Prices have continued steady at 16½c. per pound for drums in carlots and at 17½c. for l.c.l., freight allowed east of the Rockies. There is no scarcity of stocks at present.

*For Late Market Developments, See Page 4*

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## Monsanto Agriculture Units Grouped in One Department

The consolidation of Monsanto Chemical Company's organic chemicals division soil conditioners and agricultural and special sales groups into one agricultural chemicals department has been announced by John L. Hammer, jr., general manager of sales.

Herbert C. Koehler will be manager of the newly-named department and Charles P. Zorsch will be associate manager. The section will handle sales of insecticides, herbicides, wood preservatives and soil conditioners for the division. Claiborne L. Barber will be supervisor of wood preservatives sales and also will handle special chemicals sales for the department.

Mr. Koehler joined Monsanto in 1917. After many years in production at the John F. Queeuy plant in St. Louis, Mo., and the Norfolk, Va., plant, he transferred in 1939 to sales development at St. Louis. During World War II, he was director of critical materials for the purchasing and traffic department. In 1945, he was appointed manager of the agricultural and special chemicals sales department. Mr. Zorsch, prior to joining Monsanto in 1951, was associated in the agricultural chemicals field for seventeen years. Most of his Monsanto service has been devoted to soil conditioners sales.

Mr. Barber joined Monsanto in 1934 and held various production and sales positions until his transfer to St. Louis, in 1952, as supervisor of agricultural chemicals. Mr. Wangerin joined Monsanto in 1941. After serving at the central research department in Dayton, Ohio, and in production at Texas City, Tex., he was transferred to the organic chemicals division development department's agricultural chemicals section in 1951. Mr. Starrett, prior to joining Monsanto in 1947, was mostly with Standard Oil Company (Ind.) at Chicago, where he worked in research and testing. He was appointed commercial supervisor of wood preservatives for Monsanto in 1950.

## Arkell & Smiths Marks W. Va. Plant Expansion

Arkell & Smiths, Canajoharie, N. Y., held an open house recently, attended by several thousand people, to mark the completion of a $300,000 expansion program at its Wellsburg, W. Va., plant. S. S. Yates, president of the company, stated that this was the fourth expansion-modernization program at the Wellsburg plant since it started operation in 1930.

One of the features of the open house was a packaging clinic under the direction of R. P. Kessler, A&S packaging engineer. Some of the company's latest developments were demonstrated at the clinic. Recent A&S improvements discussed by Mr. Kessler were the water-repellent "Duk-Pak" kraft sheet and the "Super-Ruff" bleached kraft paper with slip-proof surface.

## Amer. Potash Adds Steele

Trevor A. Steele has been appointed to the sales staff of American Potash & Chemical Corporation, Los Angeles, as regional agronomist. Mr. Steele will assume responsibility for the technical sales requirements of potash, agricultural borax and related products in Oregon, Washington, Idaho, Montana and British Columbia. He will maintain headquarters at Salem, Ore. Prior to accepting his new post, Mr. Steele was for seven years regional agronomist for the Civil Aeronautics Authority in the Pacific Northwest. Earlier, for twelve years, he was with the soil conservation service of the Department of Agriculture in the Pacific Northwest.

## Fertilizer of High Analysis Offered by Allied Chemical

Introduction of a new, high-analysis, general crop fertilizer has been announced by Fred T. Techter, executive vice-president of the nitrogen division of Allied Chemical & Dye Corporation, New York.

The fertilizer, trademarked "Arcadian 12-12-12," will be produced by a continuous, all-chemical process in a new $5,000,000 plant at South Point, Ohio. The plant, utilizing a process developed through five years of research, will be the first of its kind in the United States, it was said.

Mr. Techter said, "Farmers will benefit economically from the high analysis of the new fertilizer and from the fact that it contains no filler and nothing but high quality plant food materials. These features will reduce the costs of transportation, handling and application. The farmer can reduce the number of lower grades of fertilizer he has to store and handle. He will also be able to make substantial savings when a single crop application of this material can take the place of two applications of lower analysis fertilizer. The high analysis of the material, which contains four times as much nitrogen as conventional fertilizers, is achieved by substituting nitric acid for strategically scarce sulphuric acid normally used to make complete fertilizers. This will result in an annual saving of up to 88,000 tons per year of 100 percent sulphuric acid."


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# Textile and Leather Chemicals

Feature of the textile and leather chemicals market last week was the firmness of old crop potato starch, which was in tight supply and prices for nearby delivery were lifted fractionally by holders of supplies in Maine. Producers also were compelled to withdraw prices for new crop starch due to delayed marketing of potatoes by Maine farmers who preferred to store them until later in the season. Egg yolk also was stronger and in limited supply, advancing five cents per pound. Albumen was unchanged as adequate stocks were available to meet current demand.

Activity in the chemical group was confined to withdrawals against former contracts, while new business was light and spotty. Prices remained steady and unchanged.

Demand for corn dextrin and starch was fairly active for immediate delivery. While Maine potato starch was higher, the market in Idaho was quotably unchanged and firm. Trading in tapioca flour was restricted to Javanese flour for prompt delivery, while interest in shipments from producing sources was reported quiet. Offers of Brazilian tapioca for shipment continued nil and light stocks on spot were closely held at former levels.

Tanners continued to operate in a hand to mouth manner, placing orders for small tonnage quantities for immediate shipment. Primary markets ruled on a steady basis and shipments were offered at former quotations.

Production of cotton broad woven goods during the second quarter of this year was reported by the Census Bureau at 2,600,000,000 linear yards, 15 percent more than for the same period last year. Yarn consumption totaled 992,000,000 pounds. This total included 856,000,000 pounds of cotton; 118,000,000 pounds of rayon and acetate and 18,000,000 pounds of other yarns. Print cloth yarn fabrics rose about 13 percent to 1,000,000,000 linear yards. Other big gains in linear yards compared to last year's second quarter were as follows:—Fine cottons, 326,000,000 against 252,000,000 linear yards; colored yarn fabrics, 228,000,000 against 193,000,000; wide cottons, 200,000,000 against 157,000,000 and narrow sheetings, 451,000,000 against 413,000,000.

## Price Trends

**Advanced**

Egg yolk, 5c. per lb.
Potato starch, Maine, ¼c. to ½c. per lb.

**Reduced**

None

**Comparative Price Indexes**

(100=1949 average)

| Last week | Prev. week | Last month | Sept. 26, 1952 |
|---|---|---|---|
| 98.54 | 98.52 | 98.52 | 104.09 |

*(For Current Prices see page 9)*

## Chemicals

**Acetic Anhydride**—Consuming demand was fairly active against former orders, while new business was limited to small quantities for immediate needs. Prices were unchanged and steady.

**Bichromates**—Steady movement against current contracts continued to feature this market. All grades were quotably unchanged and firm. Spot demand was confined to small lots.

**Sodium Acetate** — Business was restricted to actual needs. Quotations were without change.

**Sodium Hydrosulphite** — Moderate demand was noted for prompt delivery, which aggregated a good volume of sales during the past month. Market remained steady at prevailing quotations.

**Sulphonated Oils** — Recent decline of castor oil has weakened sulphonated grades. Demand was confined to actual needs.

## Sizing Materials

**Albumin Blood**—Consumer demand was fairly active for prompt needs. Stocks were adequate to meet the current demand. Prices were held at 65c. to 90c. per pound, depending upon quantity.

**Corn Dextrin**—Demand was moderate, chiefly for prompt delivery. Market remained steady at unchanged quotations. Gum was quoted at $8.95 per 100 pounds, paper bags, carlots, New York delivery; canary, $8.69; dark, $8.79, and white, $8.53, same basis. Less carlots were 15c. per 100 pounds higher.

**Corn Starch**—Business continued fairly active for immediate needs. Quotations were well held for both grades. Pearl was quoted at $7.14 per 100 pounds, paper bags, carlots, and powder, $7.26, same basis. Less carlots were 15c. per 100 pounds more. Visible corn supply declined 112,000 bushels to 6,343,000 bushels for the week ended September 18, compared with 13,993,000 bushels for the corresponding week last year, according to the Chicago Board of Trade.

**Egg Albumen**—There was no change in prices for albumen, while the tight supply of yolk resulted in an advance of 5c. per pound. Demand for albumen continued fairly active for prompt delivery. Flake was maintained at $2.41 to $2.45 per pound and powder at $2.47 to $2.49 per pound, spot according to quantity and seller. Buying interest in the technical was limited to actual needs. Prices ranged from $1.05 to $1.08 per pound, as to quantity.

**Egg Yolk**—Tight supply condition of yolk strengthened this market and quotations were lifted 5c. per pound. Limited stocks were firmly held at $1.30 to $1.33 per pound, depending upon seller and quantity. Trading was fairly active for immediate requirements.

**Potato Starch**—This market was stronger, reflecting the limited supply of old crop starch. Holders of stocks raised quotations from ¼c. to ½c. per pound. Carlots ranged from 6c. to 6½c. per pound, carlots, f.o.b. Maine, for old crop starch, depending upon seller. Offers of new crop starch have been withdrawn due to delayed marketing of potatoes by Maine farmers. As a result, starch producers were not in a position to quote for forward delivery. The local market was quotably unchanged, ranging from 8¼c. to 8¾c. per pound, exwarehouse, depending upon quantity. Idaho starch was unchanged and light offerings were maintained at 6½c. per pound, carlots, f.o.b. mills.

**Sago Flour**—Small lot trading for immediate delivery was reported last week. Market remained steady, however, due to the firmness of replacements. Raw on spot was unchanged at 7¼c. to 7½c. per pound, and refined, 8¾c. to 9¼c., depending upon quantity. Shipments were maintained at 6½c. per pound, carlots, exdock.

**Tapioca Flour**—Limited trading in Javanese flour was reported for prompt delivery. Prices were unchanged and steady. Shipments of AAA were quoted at 7½c. per pound, carlots, exdock and at 8c. to 8½c. per pound, exwarehouse, as to quantity. AA was ½c. less for shipment and spot delivery. Brazilian tapioca flour was scarce and firm on spot at 14½c. to 17c. per pound, depending upon quantity. Offers for shipment were scarce and reported nominal around 12½c. per pound, exdock.

## Tanning Materials

**Chestnut Extract** — Consumer demand was still limited to immediate requirements. Market remained steady at prevailing quotations. Liquid extract 25 percent tannin, was quoted 4.40c. per pound, tankcars; 5.3c. to 5.65c. barrels, f.o.b. works, depending upon quantity. Powdered extract, 60 percent, tannin, 11.28c. per pound, bags, carlots, and 12c. for smaller quantities, same basis.

**Cutch**—Shipments were firmly held at 8½c. per pound, exdock, plus duty. Buying interest was reported fair.

**Mangrove Bark** — Consuming inquiry was reported slightly better, but actual trading was restricted to fill-in requirements. East African was quoted at $77 to $78 per ton, exdock; Colombian, $59 per ton, and Ecuadorian, $57.50 per ton, same basis.

**Quebracho Extract**—Trading was light and restricted to immediate shipment. Primary market remained steady at prevailing quotations. Solid ordinary was quoted 11 31/64c. per pound, carlots, exdock, and clarified 12 3/16c., same basis, plus duty.

**Valonia** — Business continued inactive. Replacements were quotably unchanged for all grades. Beards were named at $76 per ton, and cups, $57 per ton, exdock. Extract, 62 percent tannin was quoted at 9½c. per pound, same basis, plus duty.

**Wattle** — Trading was reported light, chiefly for small tonnage lots for immediate shipment. Offers for shipment were maintained at former levels. Fair average bark was quoted at $100 per ton, and merchantable, $96.50 per ton, exdock South and East African extracts, 60 percent tannin were maintained at 10c. per pound, exdock, plus duty.

*For Late Market Developments, See Page 4*

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# Petroleum Derivatives

Upper field grades of Pennsylvania crude oil were reduced 50c. per barrel last week.

There was no other price activity in this market during the past week. Demand for aromatics continued strong. Very little toluol or xylol was available for industrial users. The former was in tight supply because defense requirements have held to a high level. A lack of distillation time has kept xylol short. As a result, a good demand for partial aromatics has been sustained. Aliphatics were relatively unchanged. Demand in the east has not shown any marked tendency towards building up. On the other hand, buying activity for hexane and heptane in the mid-west was strong due to uses of the solvents in oil extraction.

In the liquefied petroleum gases, prices remained firm at recently established schedules. Buying has not perked up this month, as expected earlier. It was felt that the advance in prices may have dampened any early interest in propane and butane. Microcrystalline waxes were about balanced. A limited amount of additional business could be handled. Buying increases were anticipated in the fourth quarter. A steady high demand moved the bulk of current paraffin output. Crude scale was in tight supply, with fully refined grades in close balance for domestic trade. Price schedules on all grades were firm. Lubricating oil cutbacks in western Pennsylvania refineries were felt to be behind the close supply situation in paraffin.

Recently established prices in petrolatum were judged firm. This material continued to move in good volume. Supplies were sufficient to meet the need. Producers evidenced satisfaction with the good pace of business in petroleum sulphonate. A lack of government buying did not depress the market. Buying was still sufficient to keep prices firm. Present prices of white mineral oil were firm and unchanged, despite the June crude oil increase. No revisions were indicated.

## Solvents and Diluents

**Heptane**—Demand in the east was not particularly noteworthy. Buying interest in the mid-west for oil extraction was reported to be going well due to the fall harvest of soybean and other vegetable oil crops. Activity in other outlets was quiet, reflecting the general trend of the markets for solvents and diluents. The general situation was said to be slow, due to substantial inventories held in warehouses and on consumers' shelves. It was estimated that the overall level of business was off about 10 percent, or so. Purchasing agents were still holding back. Buying policies were based on immediate needs rather than future potentials.

**Hexane**—There were no changes noted in this market. Demand from vegetable oil extraction has been quite good. Activity in other outlets was rather limited. Buying was hand-to-mouth for uses other than extraction. Prices remained steady at previously established levels. Supplies were sufficient to take care of current requirements.

**Partial Aromatic Solvents** — Producers reported that sales continued high. A good portion of current demand has been the result of tight supply situations for toluol and xylol, many consumers having switched their operations to the use of partial aromatics when they were unable to obtain the former solvents. Prices remained firm in a strong market. Supplies were sufficient to meet the call.

**Toluol**—Very little was available for industrial consumers. Producers were moving the bulk of their output into defense requirements. There has been no indication of a letup in government needs in the near future. Most sources anticipated that toluol going into 'avgas' and TNT output would hold up to the same proportion of total production for the rest of the year. That meant that industrial users would have to continue using substitutes until some break in the situation was evident. Prices held firm at their old levels.

**Xylol**—Industrial demand continued to outrun the supply. The amount of material available was limited by the distillation time which could be allotted to the production of xylol. Since the same equipment is generally used to make toluol, requirements of defense needs have come before xylol output. Prices remained steady. No revisions were anticipated at this time.

### *Price Trends*

**Advanced**
None

**Reduced**
Oil, crude, Pennsylvania, upper field, 50c. per bbl.

**Comparative Price Indexes**
(100=1949 average)

| Last week | Prev. week | Last month | Sept. 26, 1952 |
|---|---|---|---|
| 105.37 | 105.37 | 105.36 | 103.20 |

*(For Current Prices see page 9)*

### *Crude Oil Stocks*

Stocks of domestic and foreign crude petroleum at the close of the week ended September 12 totaled 280,865,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 281,227,000 barrels for the preceding week, this represents a decrease of 362,000 barrels comprising a decrease of 942,000 barrels in stocks of domestic crude and an increase of 580,000 barrels in stocks of foreign crude.

## Lighter Fractions

**LPG's**—There was no further price activity in this market during the past week. Demand has not picked up significantly. A source stated that buying interest probably would not be too heavy in October. It was felt that the price increase of the previous week might have dampened any early interest in propane and butane. No real change in consumer interest was expected until the cold weather comes along. Ample supplies were on hand to take care of current requirements of consumers.

## Waxes

**Microcrystalline**—Demand was said to be nearly in balance with present supply. One source reported that some new business could be taken on, but that production would not permit too large a number of orders at this time. Buying and selling were expected to increase to some extent during the fourth quarter. There were no price changes last week.

**Paraffin**—Nearly all production was reported moving to a steady high demand. Crude scale was judged to be in tight supply, with fully refined grades in close balance for domestic trade. Prices were thought firm on all grades, with no immediate indication of changes. Western Pennsylvania lubricating oil cutbacks at refineries were said to have greatly affected output of all grades of paraffin. It was not known when the supply situation would improve.

## Miscellaneous

**Crude Oil**—Upper field grades of Pennsylvania crude oil were reduced 50c. per barrel last week. Current quotations of the premium material were at $4.05 per barrel. Refined product inventories in excess of normal requirements were said to have necessitated the reduction after production was increased and demand declined for some products.

A severe cut in the Texas oil allowable was made by the Texas Railroad Commission for the second time in two months. The permissive flow set for October was 2,904,409 barrels per day. This was a drop of 86,223 barrels daily under September.

**Gasoline**—According to a recent Bureau of Census report, secondary inventories and storage capacity of gasoline in the United States as of July 31, 1953, totaled 20,022,000 barrels. This figure represents a decrease of 968,000 barrels under figures for the comparable period ending July 31, 1952.

**Petrolatum**—As recently adjusted prices went into effect on contract, producers reported generally favorable reaction. All quotations were judged steady, with material moving to a large volume consumption. Supplies were such that consumers were readily supplied.

**Petroleum Sulphonate**—Producers evidenced satisfaction with the good pace of business. Although trade was not stimulated by government interest during the week, it was thought that present levels of inquiry were more than sufficient to

*For Late Market Developments, See Page 4*

keep prices steady. The supply position for all types was said to be comfortable.

**White Mineral Oil**—There was still no indication concerning possible price adjustments, despite the June crude oil increase, and the increased cost of drums. Present prices were regarded firm, with a good volume of sales reported. No supply problems were encountered.

### Los Angeles Petroleum Market

Demand for solvents and diluents was well maintained over the week with supplies adequate to meet present demand. No price changes were reported. Cleaning solvents, including Stoddard, quoted 18.3c. per gallon, 400 gallons or over, ex-tax, f.o.b. Los Angeles Basin area. Lacquer diluent quoted 17.3c. per gallon, same basis.

Little if any change was noted in the LPG market. Interest in propane was fair to moderate with producers reporting adequate stocks. Postings were unchanged at 6.4c. per gallon, tankcars, f.o.b. Los Angeles. Demand for butane continued steady with supplies limited, quoted 6.4c. per gallon, tankcars, f.o.b. Los Angeles.

The supply and demand position of high melting point paraffin waxes continued on an equal basis with no actual shortage of supply reported for any grade. 140/147 ASTM, carload loose slabs, fully refined, f.o.b. refinery San Francisco Bay area, quoted .0805c. per pound: 157/162 ASTM, same basis, quoted .088c. per pound.

## Refining Capacity Increase Outside US Seen by PAD

Refining capacity in free-world nations outside the United States will, by the end of 1955, be 40 percent greater than it was at the end of 1951, acting deputy Petroleum Administrator Rea Jackson said last week. Refineries in the Far East will have increased their capacities by 77 percent over the period, and European refiners will have increased their capacities by 47 percent, he stated. Western Hemisphere refiners outside the United States, on the other hand, plan only a 28 percent increase in capacities over the period. No major expansion is planned in the Caribbean area.

These statistics are available, Mr. Jackson said, as a result of a survey of foreign refining capacity recently completed by the Petroleum Administration for Defense. Refiners throughout the free world supplied the agency with capacity figures on all projects on which work actually has been begun. PAD has analyzed all the available data, Mr. Jackson said, and the staff believes the results are the most complete and accurate figures on foreign refineries ever assembled.

PAD based its study on the projected increase in crude capacity as between the end of 1951 and the end of 1955. The 1951 date was chosen because it was during that year that the production of the Abadan refinery in Iran — rated at from 500,000 to 550,000 barrels a day—was lost to free-world trade. On other data PAD asked for comparisons between the end of 1952 and the end of 1955.

## OIT Names Carl Blackwell Economic Analysis Director

The Office of International Trade has appointed Carl P. Blackwell director of its international economic analysis division. The unit is the central organization in OIT for the compilation of foreign trade statistics and the analysis and interpretation of US foreign trade developments.

Mr. Blackwell joined the Department of Commerce, of which OIT is a part, in 1941 as an "intern" under the auspices of the National Institute of Public Affairs. With the exception of his service in the army air force during World War II he has continued his association with the department in various capacities as an economic analyst in both domestic and international fields. Since early last year, Mr. Blackwell has served as assistant director and acting director of the international economic analysis division.

### *Oil Chemists' Plans Told*

*—Continued from page 7*

Hammond and W. O. Lundberg, University of Minnesota, Minneapolis, Minn.; "The Alkali Isomerization of a Methyl Docosahexaenoate and the Spectral Properties of Conjugated Fatty Acids," by E. G. Hammond and W. O. Lundberg; "Baking Properties of Flour After Varying Storage Conditions," by W. F. Geddes, University of Minnesota; "Physical Characteristics of the Methyl Esters of Saturated Acids and Corresponding Esters," by James Shigley, Pennsylvania State College, State College, Pa., and "Perfluoralkyl Esters," by A. H. Ahlbrecht, G. B. Blake, H. G. Bryce, and V. E. Welschinger, Minnesota Mining & Manufacturing Company, St. Paul, Minn.

Chairman of the student session, an innovation at the Chicago fall meeting, will be K. F. Mattil of Swift & Co., Chicago. Among the speakers will be A. R. Baldwin, Corn Products Refining Company, Argo, Ill.; F. A. Kummerow, University of Illinois, Urbana, Ill., and Wouter Bosch, North Dakota Agricultural College, Fargo, N. D.

### *Trade Briefs*

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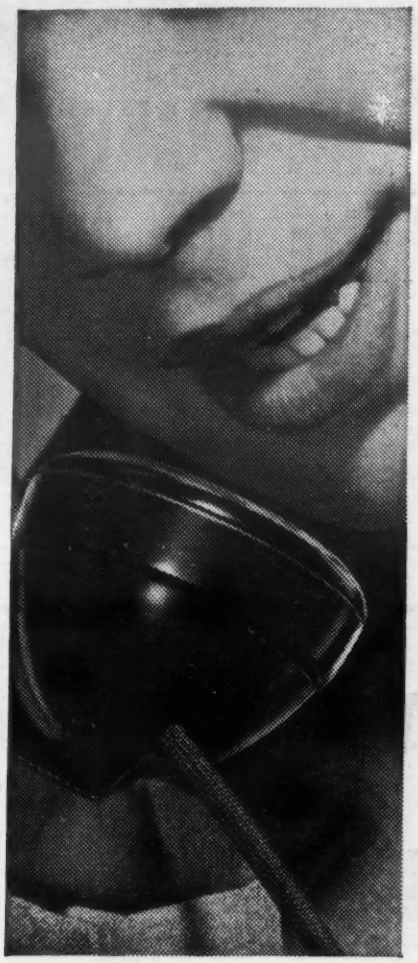

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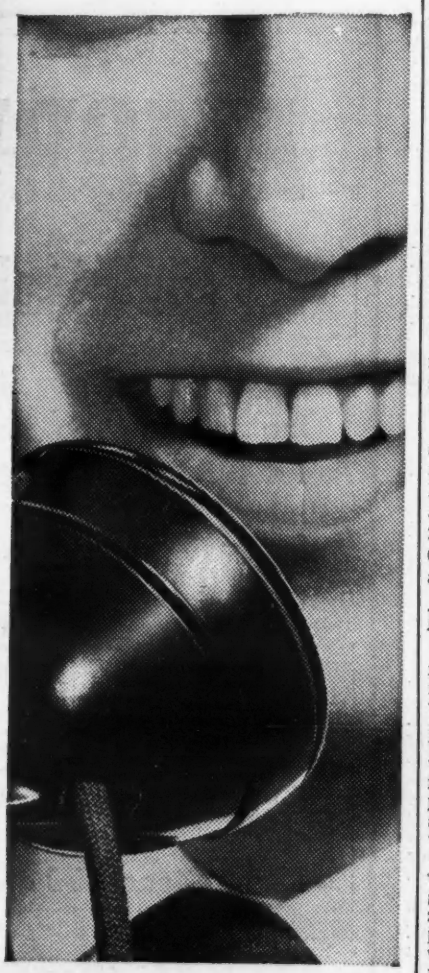

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# Coal Chemicals

This market was quiet, pricewise last week. There was no significant change in the general levels of activity. Business in the tar acids remained relatively good. Among the intermediates, demand from textiles kept things alive, while interest from the rubber industry was falling off. A strong demand persisted for aromatics.

Producers were moving just about all of the benzol they made. In certain areas some sources had a little available, while in other districts producers were soldup for the rest of the year and were turning away business. Although cutbacks in the government rubber reserve program may show drops in consumption of benzol from this outlet, increases were noted in activity for polystyrene and phenolic resins. Toluol remained in very tight supply. Government requirements remained heavy. No easing of the supply situation for toluol was seen through the rest of the year. Xylol supplies were also tight.

The cresols and cresylic acid enjoyed a good demand from cresylic resins, tricresyl phosphate, and engine cleaner business for the government. Some of the resin fractions and metaparacresol were in tight supply. Imported ADF cresylic was not moving in very heavy volume. Some sources were moving a modest amount, others said it was slow.

Crude naphthalene sales were slow for domestic producers and importers alike. Phenol sales were said to be a bit slower by sources of natural and synthetic material, even though some phenolic resin producers were showing a bit more activity. Inventories were being worked off a bit, it was felt. Phthalic anhydride was on the fence between being balanced or being a bit long, it was said. Pyridin was slow. Dyestuff demand for anilin and betanaphthol was good, but the call from rubber was lower. Tobias acid was doing slightly better. Sulphanilic acid was moving along nicely.

Operations in the steel industry were scheduled to be at 94.1 percent of theoretical capacity, according to the American Iron and Steel Institute. This was equivalent to 2,120,000 tons, compared with 2,060,000 tons the previous week, 2,106,000 one month ago, and 2,160,000 on year ago.

### *Price Trends*

**Advanced**

None

**Reduced**

None

**Comparative Price Indexes**

(100=1949 average)

| Last week | Prev. week | Last month | Sept. 25, 1952 |
|---|---|---|---|
| 114.60 | 114.60 | 114.57 | 113.56 |

*(For Current Prices see page 9)*

## Basic Products

**Benzol**—No significant changes were noted in the market. Producers were still moving their output along. Demand in the Pittsburgh area was strong a source said. A producer here, said that it had turned down orders for this month. It was added that overall consumption levels in the Ohio valley area exceeded present production capacity. On the other hand, some sources in other areas felt that there were signs of less pressure.

Although some cuts were anticipated with the drop in the rubber reserve program and demand from monochlorobenzene has been off, a definite pickup in polystyrene was noted in the beginning weeks of this month. Then too, phenolic resins were showing increased activity since the end of summer vacations and the Labor Day weekend.

Most producers hoped to move their production during the next quarter, even though some members of the trade were not too certain of future requirements. A reassuring note was seen in the fact that most producers were in a soldup position through the rest of the year. It was felt that any soft spots which might develop, may well be localized and temporary.

**Creosote**—No significant changes were noted in this market in the past several weeks. Demand has held fairly steady at an even pace. Producers could handle some additional business if it materialized, supplies being sufficient to take care of current requirements of consumers. Prices remained firm at previously established levels.

**Cresols**—Producers said that business was still very good for these tar acids. Demand from cresylic resins has been strong enough to make several grades scarce. Tricresyl phosphate has been another outlet for a good volume of metaparacresol. Then too, a substantial amount of the acid business was going to engine cleaner contracts. A source said that the aircraft engine cleaners have moved many fractions which were not being sought by makers of cresylic resins.

The light cresols were not enjoying as much interest as the fractions containing more xylenols. However, the former acids with more orthocresol content were being moved in some instances by blending the various fractions available to meet specifications for engine cleaner business. Competative bidding was keen, it was said. Use of TCP as a gasoline additive has added enough strength to that market to keep up a good call for mixed metapara isomers. On the whole, the general picture of the cresols looked steady, at a good pace. No real surges were expected, but sales should hold up, it was added.

**Cresylic Acid**—Domestic producers have enjoyed reasonably good demand for several grades of acid. Cresylic resins have held activity up to a good pace. Some of the other fractions, not normally used to a great extent by cresylic resin producers were being moved to engine cleaner business. Petroleum cresylics have moved well since the engine cleaner contracts began to move.

Importers said that there were no particular changes in the picture of ADF acid. A moderate amount of material was moving. Some sources said that activity was slow. Prices held to 75c. to 90c. per gallon, depending upon quantity.

**Naphthalene**—Sales of crude material were still rather slow, producers said. Domestic production capacity was high and current demand was relatively low. A large phthalic anhydride producer has not been in the naphthalene buying market for close to six months, due to a labor shutdown at its plant. A good volume of low-priced imported crude naphthalene available on the market was another factor depressing activity. Consumers, knowing that they were able to get whatever they needed for their own output, were not inclined to buy any more than present contracts committed them to buy.

Sales of industrial refined material were at a fair level, a source said. Business here was not as good as it had been a few months ago, but it was satisfactory. It was added that betanaphthol buying was spotty, with some sources going well and other sources slower.

Importers said that 78-degree hotpressed material was still very quiet. Sales were extremely limited, with most consumers getting all they needed through contracts with domestic producers. Price schedules for imported crude were within the range of 3¼c. to 3½c. per pound. Importers stated that foreign sources of supply seemed to be attempting to resist the low prices here. However, it was not too significant now as there was not much demand for imported naphthalene, it was added. Some refined ball and flake material has been coming into the country where consumers were near the ports and domestic producers had freight costs which allowed imported naphthalene room for competition.

**Phenol**—Producers of natural material said that this tar acid continued to move at a moderate rate. Some sources had a little available so that they could handle more business. It was added that sales this month have slackened off a bit, possibly due to the fact that consumers bought enough phenol for their needs during the preceding months. Synthetic phenol sales were reported as being relatively the same as natural material. Current demand has fallen off a bit due to decreases from phenolic resins and ad-

### *Production Estimate*

Estimated output of coaltar chemicals recovered from cokeoven operation during the week ending September 26 was as follows:—

| | | |
|---|---|---|
| Ammonium liquid, $NH_3$ | lbs. | 991,824 |
| Ammonium sulphate | lbs. | 35,847,368 |
| Benzol | gals | 3,428,879 |
| Coaltar | gals. | 15,727,701 |
| Creosote oil | gals. | 878,473 |
| Naphthalene, crude | lbs. | 2,422,885 |
| Pyridin, refined | lbs. | 25,504 |
| Toluol | gals. | 674,441 |
| Xylol | gals. | 179,845 |

*For Late Market Developments, See Page 4*

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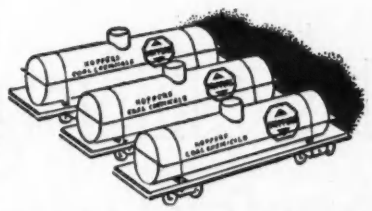

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hesives. Even though some phenolic producers were showing a bit more activity since the first of September, steady buying of phenol in August put them in an adequate inventory position to meet current production needs. Hence, synthetic phenol was readily available. Prices of technical and USP grades were unchanged, with little likelihood of any revisions now.

**Pyridin**—Demand for refined 2-degree material was way off. Even though producers could not move all of their present production, they felt certain that they would be able to sell it later. Some sources foresaw a pickup eventually, one producer even expecting the market to get tight again. But, other suppliers do not see anything yet that would indicate a better market.

The more optimistic producers were basing their hopes on current investigation of new end-uses. It was felt that versatility of refined pyridin will result in a good market outlet. The large number of end-uses already a part of the pyridin picture seem to bolster that idea. Current price schedules remained at the $1.15 level. No revisions were anticipated at this time.

**Toluol**—Supplies of this aromatic continued to be very tight. Large government requirements for defense purposes have kept toluol in a squeeze. Industrial consumption was still there, but most producers felt that they would have a difficult time moving all their production if government buying ceased. The problem was that consumers switched over to substitutes when they were unable to get toluol. There is some question whether or not consumers would be ready to switch back since toluol prices were higher than some of the substitutes currently being used it was said.

Producers anticipated that defense buying will hold to the same pace for the rest of the year. TNT and aviation gasoline have taken the lion's share of the market for many months. There were no definite indications just what November and December requirements will be, but October directives were already set for the same proportions of coaltar output, it was said.

**Xylol**—The market for this light oil was still one of tight supply. Consumer requirements of xylol have been sustained all through the toluol shortage. Where they could, buyers switched over to the use of xylol when toluol became unavailable. In addition, pertoleum derived xylol was short through the pressure of demand and the fact that distillation equipment was tied up in toluol production. One source stated that coaltar xylol production was inadequate in the Pittsburgh area to take care of the overall need. Hence, petroleum material has been moving into that area too. Prices were held at previously established levels.

## Intermediates

**Acetanilide**—A good supply of technical material was available to meet consumers' requirements. Demand has not been especially heavy. Activity for pharmaceuticals was only slightly better than it had been earlier. No significant changes in the picture of this market were anticipated in the near future. Prices were firm at previous levels.

**Alphapicoline**—Producers stated that this tar base was moving very well. Supplies were in a tight position, a source said. The alpha isomer has enjoyed a good call from the production of a substituted pyridin for a long while. Prices remained steady. No changes were anticipated.

**Anilin**—Activity for this intermediate was a relatively even rate. Demand from dyestuffs was reported as being quite good. However, some loss of interest was noted from the rubber industry. Buying has not fallen off to the point where producers have had to cut back production, as is normal in this market when demand is down. Prices have held to their old schedules.

**Anthraquinone**—There were no changes in the market for this dyestuff material. Producers reported that sales were at a satisfactory level and output was moving out to consumers well. Prices were steady at their old schedules. Supplies were sufficient to take care of consumer requirements. Producers said that there were no tight spots in the supply picture and none were anticipated now. During periods of heavy buying in the past, anthraquinone was one dyestuff material which remained in tight supply for a long duration. There had been a faint possibility of a shortage during the recent phthalic anhydride scarcity, but that chance was eliminated with the new phthalic production which came in.

**Betanaphthol**—Buying interest from the rubber industry has fallen off a bit with


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the cutbacks in the government rubber reserve program and the easing of the market for replacement tires and new automobile production. However, this intermediates's use in dyestuffs has held up very well. Current demand from textiles was quite good, sources said. Price schedules were unchanged at 32½c. per pound in carlots for the technical material, and 34½c. per pound for less than carlots.

**Chlorinated Benzenes**—Demand for monochlorobenzene was still quite slow. Activity in the insecticides was very poor this year and production of DDT was presently way down. Orthodichlorobenzene was said to be slow now. This material had enjoyed a good demand from the engine cleaner business for a few months, but it appears to have been fairly well taken care of, as far as ortho was concerned. Stocks of paradichlorobenzene were building up a bit, due to the off-season for para.

**Metatolylenediamine**—A source stated that this intermediate was moving very well. Demand has held to a steady pace. Prices were firm at their old schedules. Supplies were sufficient to take care of current consumer needs.

**Monoethylanilin**—This material was currently available. Demand saw a decrease when government requirements slacked off, a source said. Prices were unchanged. No revisions were anticipated at this time.

**Nitrobenzene**—A source stated that business for this intermediate was slow compared with last year's levels. Supplies were adequate to meet current requirements. Prices have held steady at their old listings.

**Orthophenylphenol**—There were no changes in this market. Ample material was available to meet consumers needs. Demand was not particularly noteworthy. Prices were firm and unchanged.

**Paranitroanilin**—Producers reported that there has not been any drastic change in the picture of this market. Supplies were good enough to accommodate current consumer requirements. Prices were steady at previous schedules. Demand kept the material moving at the same rate. No increases were expected immediately.

**Paraphenylphenol**—Producers reported that this market was currently in good supply. This was a complete change from the picture of this market for a long time. Paraphenylphenol had been on allocation in order to meet government orders. Phenolic resins derived from this intermediate have long been used by the Navy for protective coatings. When the Navy went out of the paint business, supplies of paraphenylphenol eased up without directives on it. Prices remained unchanged.

**Phthalic Anhydride**—The trend of tight market conditions for this intermediate seem to be reversed. Producers were still moving a good volume of phthalic; however some sources were not sure yet how September sales were going to turn out. One producer stated that it expected to have some material available by the end of the month. No real surpluses were anticipated immediately. Alkyd resins have shown some signs of picking up in the past few weeks. Some alkyd producers have reported good, steady sales levels all along. Phthalic anhydride prices were firm at previously established schedules.

**Sulphanilic Acid**—Prices remained firm in a market which showed a good demand. Producers said that this acid was moving at a good clip. Supplies were good enough to accommodate current buying levels.

**Tobias Acid**—There has been a slight increase in interest in this market, a source said. Activity had been a bit slow during the summer months. It was said that this was one market which seemed to reflect greater fluctuations in demand than many others. Scheduling of production was a difficult thing, with the fluctuations of demand, it was said. Supplies were currently adequate to meet the immediate requirements of consumers. Prices held firm at previously established schedules.

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## Gen'l Dyestuff Consolidating Boston, Providence Offices

In order to increase its technical, sales and warehouse facilities in New England, General Dyestuff Corporation, New York, is consolidating its Boston and Providence, R. I., sales offices under one roof at the company's present location, 85 Tockwotton street, Providence.

New construction at the present site will occupy a full square block to provide modern sales and office space as well as increased laboratory and warehouse areas. All personnel from both offices will be combined under the direction of W. A. Lord, present sales manager in New England and assisted by W. M. Dewing, former manager of the Boston office. It is expected the consolidation will be completed by November 1. Although the concern will no longer maintain laboratory and warehouse space in Boston, Frank Benvie will continue to act as the concern's sales representative there.

## *Monsanto Revamps*

—*Continued from page 5*

manager of pharmaceutical sales, was made assistant general manager of sales in 1949.

Mr. Tupper joined Monsanto's heavy chemicals sales group in St. Louis in 1933, and has been manager of the plasticizers and resins sales department in that city since February of last year. Mr. Russell became associated with Monsanto in 1937 via its flavors and condiments sales group in St. Louis. He was made Detroit, Mich., branch manager in 1945, general branch manager at Chicago four years later and New York general branch manager in 1951.

Mr. Singmaster, assistant general branch manager in New York since 1951, was general manager at Bainbridge, N. Y., for the Casein Company of America, a division of the Borden Company, prior to joining Monsanto's New York office in 1944. Mr. Hutchison, with Monsanto for twelve years, became a member of the engineering sales department in 1942, was shifted to Cincinnati in 1949 and was made branch manager there in 1951.

Mr. Feeks has been with the company in New York since 1934. Mr. Armstrong, who has been representing Monsanto in Boston since 1948, is an eleven-year man with the company. Mr. Evans, with Monsanto since 1941, has been handling plasticizers and resins sales out of St. Louis for the past four years.

## Tallow Purchase Funds Are Awarded to Greece

Greece has been granted an authorization to purchase $125,000 worth of tallow and greases in the United States and its possessions with funds advanced by the Foreign Operations Administration, it was announced last week. The authorization is No. 40-0502-00-4001. The contract period extends to December 31, 1953, and delivery is required by February 28, 1954.

Turkey has been granted an authorization to purchase $27,000 worth of agricultural pesticides in the United States and possessions with funds advanced by the agency. The authorization is No. 77-236-00-4001. The contract period runs until January 31, 1954, and delivery until March 31, 1954.

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# Drugs and Fine Chemicals

There was little newsworthy activity in the drugs and fine chemicals market last week. Castor beans were nominally down $5 per long ton, f.o.b., Brazil. There were some additional announcements made by solvents manufacturers regarding the recent changes in carlot and less carlot drum differentials. Aside from these, prices of most large volume organic chemicals continued without any basic change. In the line of future price activity, there were some reports that mercurial prices may come down. Quicksilver prices have had a substantial overall decline in the past two years but mercurial manufacturers have failed to reflect their lower raw material costs, to date, it was said. Consequently, consumers have not been overly eager to buy at current price levels. Reports that imported mercurials were offered in this market at prices substantially below domestic schedules, may hasten a revision in current prices, in the opinion of some trade observers.

Refined fusel oil and fermentation amyl acetates were said to be in short supply, on the whole. The shortage was attributed to the increasing curtailment of fermentation operations. Production of synthetic alcohol has steadily increased with the resultant reduction in fermentation alcohol operations, it was noted.

Prices on refined fusel oil and fermentation amyl acetates continued to hold unchanged. There were some reports that unless the supply situation is relieved, prices may be forced upward.

Activity in the crude glycerin market was nil as last week saw a continuation of the stalemate which has characterized this market for the past three weeks. Buyers and sellers' ideas on crude glycerin prices have been considerably at variance but some observers expect this situation to stabilize in the near future. Demand for refined glycerin was at steady levels. Producers have noted that the usual Fall upturn in business has begun with cosmetic and pharmaceutical manufacturers increasing their glycerin consumption.

Benzoic acid and its sodium salt continued to move at good levels. Prices were firm, according to producers. Ethyleneglycol was in fair demand. Supplies were ample for current inquiry and production capacity was said to be sufficient to meet any anticipated increase in consumption. Some small lots of German synthetic camphor were noted to have come in recently. It was understood that this material was priced considerably below schedules for the domestic synthetic product.

**Ammonium Sulphate**—The price of purified ammonium sulphate was recently advanced 1c. per pound. The current schedule on this material, in drums, ranged from 8½c. to 10c. per pound.

**Amyl Acetate**—Production of fermentation amyl alcohol was said to be running at reduced levels with the result that the supply situation was reportedly tight, in some quarters. Producers did not forsee any immediate improvement in supply and there were reports that a continued shortage might see an increase in prices in the future.

**Ascorbic Acid**—Demand for ascorbic acid was said to be running at good levels. Considerable quantities of ascorbic acid are consumed in the processing of frozen foods where its properties as an antioxidant are important. Supplies are ample for current inquiry and expected to remain adequate for future demand, it was said. Prices were unchanged.

**Benzoic Acid**—Demand for benzoic acid and its sodium salt were reportedly continuing at good levels. Supplies were ample for current inquiry and prices unchanged.

**Camphor**—Some lots of synthetic camphor were reported to have been landed in this country recently. The material was of German origin and was said to be priced considerably under domestic synthetic schedules. Whether the foreign material is of a quality comparable to the domestic remained a matter for conjecture, at present, it was said.

**Castor Oil**—Castor bean prices were currently quoted at $130 per long ton, f.o.b., Brazil. This amounted to a $5 per ton reduction from previously reported prices. Imports of castor beans and castor oil at New York and Philadelphia were as follows:—

| | Pounds | |
|---|---|---|
| | Beans | Oil |
| Last week | 357,750 | 1,796,000 |
| Previous week | 1,359,500 | 2,470,000 |
| Corresponding week, 1952. | 1,424,550 | 915,600 |
| Total this year | 78,563,100 | 98,658,300 |
| Corresponding period, 1952. | 94,108,100 | 54,373,350 |

**Ethyleneglycol**—Demand for ethyleneglycol was going at a fair rate, according to producers. Supplies were ample for present inquiry and expected to continue, it was said.

The Tariff Commission reported that production of ethyleneglycol totaled 53,410,705 pounds compared to 53,519,088 pounds in May this year.

**Fusel Oil**—Refined oil was reported to be in short supply as a consequence of the curtailment in distillation operations. Producers expect that supplies will probably continue tight since no immediate stepup is foreseen in production. On the contrary, consumers of refined fusel oil may be forced to use more of other solvents in their formulations, it was said. Prices on fusel oil currently ranged from 15c. to 15½c. per pound in tanks.

**Glycerin**—Demand for refined glycerin continued at unchanged levels. Trade sources noted that the usual seasonal increase in glycerin consumption has begun and it was expected that consumption in the coming quarter should be good, on the overall. Government buying was said to be about at the same level as earlier in the year. There were reports of a stretchout in munitions manufacture which may indirectly affect consumption in this quarter to a slight degree. Civilian consumption of glycerin remained the major actor in current consumption. Production in certain consumer lines such as cosmetics and pharmaceuticals has been stepped up in preparation for the ante Christmas selling season. Glycerin consumption in these lines was expected to be given an impetus during this period. Supplies of refined grades were reported to be ample for current inquiry and expected to continue adequate in the future. Although production of natural glycerin has declined somewhat in recent years as a consequence of the boom in detergent usage, some glycerin is produced in the manufacture of certain detergents thus lessening the effect on glycerin production in the swing to detergents. Prices remained unchanged.

The market in crude glycerin continued unstable. Buyers' and sellers' ideas remained at variance. Consequently no prices were reported for either soapiye or saponification crudes.

Production of crude glycerin amounted to 13,722,000 pounds during July compared to 18,199,000 pounds turned out in June, 1953, and 10,362,000 pounds in July last year. The January to July cumulative total amounted to 126,061,000 pounds this year compared to 105,577,000 pounds turned out during the corresponding period last year.

Stocks at the beginning of July totaled 56,904,000 pounds of all grades, compared to 53,261,000 pounds at the beginning of June, 1953, and 50,720 pounds at the beginning of July last year.

Glycerin imports totaled 3,883,000 pounds in July compared to 2,442,000 pounds during June and 1,364,000 pounds in July last year. The cumulative total for the first seven months of the year amounted to 24,430,000 pounds compared to 5,561,000 pounds landed during the corresponding period in 1952.

Exports of glycerin amounted to 412,000 pounds in July compared to 832,000 pounds in June and 1,862,000 pounds during July last year. The January-July cumulative total amounted to 2,217,000 pounds compared to 6,702,000 pounds exported during the corresponding period last year.

Glycerin stocks at the end of July amounted to 55,246,000 pounds compared to 56,904,000 pounds for June and 45,699,000 pounds at the end of July last year.

Glycerin disappearance during July totaled 18,850,000 pounds compared to 16,166,000 pounds in June and 14,885,000

*For Late Market Developments, See Page 4*

## *Price Trends*

**Advanced**

None

**Reduced**

Castor beans, $5 per long ton, f.o.b. Brazil.

**Comparative Price Indexes**

(100=1949 average)

| Last week | Prev. week | Last month | Sept. 26, 1952 |
|---|---|---|---|
| 89.22 | 89.22 | 89.23 | 94.12 |

*(For Current Prices see page 9)*

pounds in July last year. The cumulative total for the first seven months to July amounted to 130,744,000 pounds compared to 114,463,000 pounds consumed during the corresponding period in 1952.

**Isobutyl Acetate**—It became known last week that isobutyl acetate prices on drum carlots and less than carlot quantities, had also been included in the recent differential price boosts. The current schedule on this solvent was 11¼c. per pound in tanks, 13¼c. in drum carlots and 14¼c. in less than carlots.

**Isopropyl Acetate**—The current price schedule on isopropyl acetate was 10c. per pound, in tankcars, 12c. in drum carlots and 13c. in less than carlots. Price differentials on drum carlots and less than carlots were recently advanced ¼c. and ½c. per pound, respectively, in line with the general boost in solvent prices.

**Mercurials**—Demand for mercurial compounds continued at fair levels. Supplies were ample for current inquiry and expected to continue, it was said. Prices remained unchanged. Trade sources noted that some mercurial prices have not undergone a change since 1951 despite the downward trend taken by mercury prices from the peak reached right after the start of the Korean war. At present, consequently, there is a feeling that mercurials are overpriced.

There have been some reported offerings of mercurials from abroad at prices substantially below those of domestic makers. Negotiations were said to be under way for the purchase of some lots of mercurials at lower prices. Perhaps, the influx of foreign material into the market will act as a spur to domestic producers to bring their prices more into line with the current costs of quicksilver, it was said.

**Milk Powder**—The market in nonfat dry milk solids was steady to firm. Offerings of spray process were adequate to excessive but roller process was held rather closely. Demand improved for roller process but purchases of spray process were confined to immediate needs only. The undertone in the market was firm. Purchases by the CCC from September 10 to 16, inclusive, totaled 7,842,767 pounds of spray process at 16c. and 1,433,802 pounds at 14c.

The market in whole milk powder was firm. Demand has improved and lighter offerings resulted in some price advance although higher prices remained unchanged. Spray-dried whole milk production for July was 9,550,000 pounds, a gain of 4 percent from a year earlier but a decine of 29 percent from the 1947-51 July average. During the first 7 months of 1953, output totaled 55,550,000 pounds, a decline of 10 percent from the same period a year earlier. Roller-dried whole milk production equaled 620,000 pounds, a decline of 17 percent from a year earlier and 55 percent rom the 5-year average for the month. For the period from January through July, production totaled 4,110,000 pounds, a decline of 4 percent from the same 7 months period in 1952. The United States Department of Agriculture purchased 310,762,000 pounds of nonfat dry milk solids for purposes of price support during the period from April 1 through August 25, 1953. Purchases during July totaled 67,256,000 pounds and those for August through the 25th of the month, 38,258,000 pounds.

**Molasses**—Demand for cane blackstrap molasses continued unchanged at all port terminals during the week ended September 22, 1953. The price at New Orleans was 11½c. per gallon. New York, Philadelphia and Baltimore were quoting 12½c. to 13c. Demand continued generally moderate in the Gulf area and on the east coast, slow on the west coast and good to moderate at Houston. Beet, citrus and hydrol molasses prices and supply-demand conditions continued unchanged from last week.

As of September 15, 1953, Cuba had allotted 109,300,000 gallons of blackstrap for local consumption, according to the Cuban Sugar Stabilization Institute. Of the 138,400,000 gallons of molasses sold for export from the 1953 Cuban crop, there remained 44,600,000 gallons yet to be shipped to buyers.

**Perchloroethylene**—Demand for perchloroethylene continued at fair to good levels depending upon the various viewpoints encountered in the trade. Supplies were ample for current inquiry and prices unchanged.

The Tariff Commission reported that production of perchloroethylene totaled 15,792,339 pounds during June compared to 13,089,926 in May, 1953.

**Sulpha Drugs**—The Tariff Commission reported that production of sulpha drugs aggregated 302,782 pounds during June compared to 381,507 pounds in May, 1953.

**Trichloroethylene**—Demand for this chlorinated olefin continued routine, according to producers. Supplies were adequate for current inquiry and expected to remain so in the immediate future. Prices were unchanged.

The Tariff Commission reported that production of trichloroethylene totaled 23,438,341 pounds during June, 1953, compared to 27,987,084 pounds turned out in May.

## Beckman Chooses Jones

Robert T. Jones, former sales executive with Applied Research Laboratories, has joined Beckman Instruments, Inc., South Pasadena, Calif., where he will head export sales. During a five-year tenure with applied research, Mr. Jones held administrative posts in virtually all phases of the operation, from production to foreign and domestic sales. He had handled the company's government liaison work and was instrumental in the establishment of its overseas assembly plant in Switzerland.

### Universal Detergents Appoints

C. E. Hayward, for the past several years with the industrial division of Purex Corporation and Wyandotte Chemicals Corporation has been named western division representative of Universal Detergents, Inc., Long Beach, Calif.

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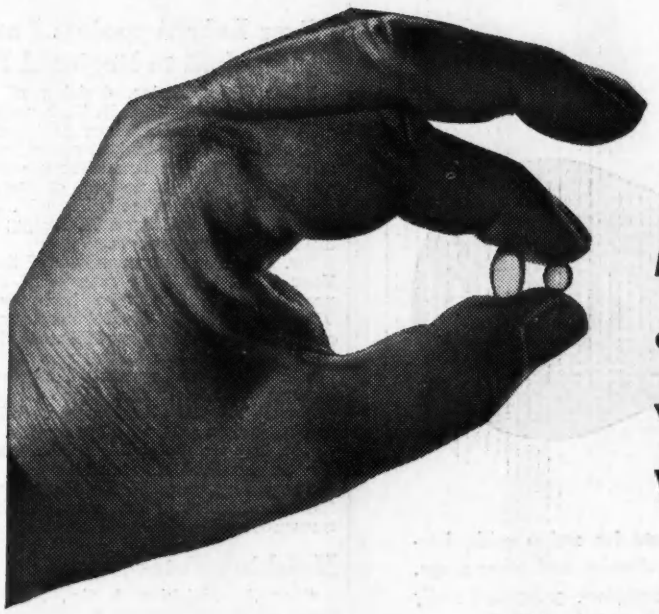

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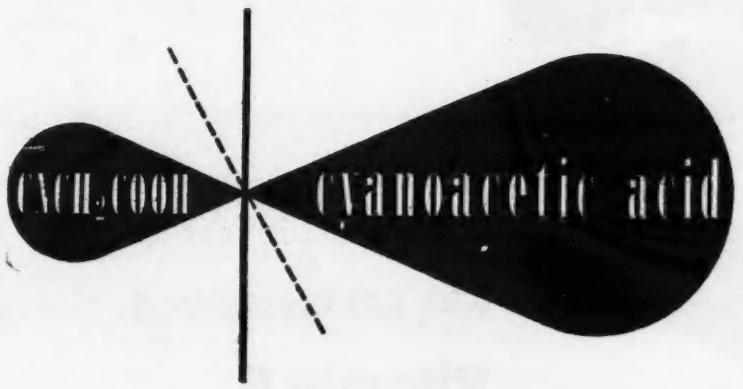


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CHLORINATION
$CNCH_2COOH + PCl_5 + Cl_2 \longrightarrow CNCH_2COCl + POCl_3 + HCl$

HYDROLYSIS
$CNCH_2COOH + H_2O \longrightarrow CH_2(COOH)_2 + NH_3$

REDUCTION
$CNCH_2COOH + 2H_2 \longrightarrow NH_2CH_2CH_2COOH$

CONDENSATION
$CNCH_2COOH + RCOR^1 \longrightarrow RR^1C=C(CN)COOH + H_2O$

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## Lysine Cereal Fortification Patent Freed by duPont Co.

E. I. duPont de Nemours & Co., Wilmington, Del., has placed a patent relating to the use of lysine in the fortification of bread and other cereal foods on the Register of Patents of the Patent Office in the form of a free license to the government and people of the United States. The action permits anyone who wishes to carry out the invention on a royalty-free basis.

All rights to US Patent No. 2,344,229 on lysine fortification of cereal foods, issued to Dr. Richard J. Block and Miss Diana Bolling, were recently purchased by duPont from C. M. Armstrong, Inc., a subsidiary of American Maize Products Corporation. Dr. Block, director of biochemical research of the special products division of the Borden Company, is an international authority on nutrition and the role of amino acids in food fortification. Miss Bolling, a leading nutritionist, is an associate of Dr. Block and collaborated with him in writing an authoritative book on amino acid analysis of proteins and foods.

DuPont has perfected a process for synthesizing lysine and is making experimental quantities available for evaluation by millers, food manufacturers, nutritionists and others interested in the field.

## Pfizer Labs Appoints Lotz, Mendenhall to Regional Posts

Pfizer Laboratories, division of Chas. Pfizer & Co., Brooklyn, N. Y., has appointed Carl Lotz northeastern regional manager and Ivan Mendenhall control regional manager. At the same time the division announced the promotions of Daniel F. Smith, Howard Hartwell, Gene W. Fuller, Don C. Cosby and Fred W. Ruegg, jr., to district managers' posts.

Mr. Lotz, formerly manager of the New York district, will be succeeded at that post by John Zea, who had been the Washington, D. C., district manager. Robert H. Medlin will succeed Mr. Mendenhall as manager of the Chicago district. Mr. Smith has been appointed to the San Francisco district; Mr. Hartwell to the Cleveland, Ohio, district; Mr. Fuller to the Washington, D. C., district; Mr. Cosby to the Indiana district, and Mr. Ruegg to the St. Louis, Mo., district.

The parent company has also announced the appointment of Dr. John A. Olson as a member of the medical service staff.

## Huisking Fetes Sammer

Chas. L. Huisking & Co., New York, tendered Hans Sammer a luncheon September 23 to mark his thirty years of association with the Huisking organization. Coming from Vienna in 1923, Mr. Sammer started as assistant bookkeeper, later joining the export department. During the past fourteen years, he has been sales manager of the oil department, now the Peder Devold Oil Company Division. Mr. Sammer is also Huisking's advertising manager.

## Van Patten Adds LeFevour

Van Patten Pharmaceutical Company, Chicago, has appointed Charles F. LeFevour as product production manager for its preparations in the pharmaceutical field. M. LeFavour was formerly with Argonne National Laboratories and, most recently, with Standard Pharmacal Company, Chicago.

## Cowles Company Issues Catalog

Cowles Company, Inc., Cayuga, N. Y., has issued a new catalog covering its enlarged line of "Ultrafast" dissolving equipment. The new sixteen-page booklet describes and gives specifications of the complete list of Cowles equipment utilizing the patented high speed impeller that makes it possible for manufacturers to cut dissolving, dispersing and mixing operations up to 97 percent in some operations. The new catalog is available from Cowles upon request.

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## Health Information Group Pays Tribute to S. B. Penick

A scroll paying tribute to the memory of the late S. Barksdale Penick, founder of S. B. Penick & Co., New York, for his contribution to the establishment and operation of the Health Information Foundation, was presented recently by HIF to Mr. Penick's family.

Pointing out that Mr. Penick was among the first to see the need for HIF and that from the organization's inception until his death in May of this year, "he gave unstintingly of his services" to the foundation, the tribute cited Mr. Penick for his belief in HIF as "an unusual opportunity" to fulfill "a grave responsibility he felt for himself personally and for the drug industry to help strengthen the well-being of the American People."

Mr. Penick was HIF treasurer, board member and member of the foundation's executive, operating and finance committees. Mr. Penick's son, S. Barksdale Penick, jr., president of the New York botanical drug firm founded by his father, accepted the scroll on behalf of his mother and company associates. Formal presentation was made by John G. Searle, president of G. D. Searle & Co., Chicago, and HIF chairman.

## Synthetic Chemicals Group Is Offered by Eaton Labs

A group of synthetic chemicals which offer possibilities as reagents, solvents or as intermediates in the manufacture of other chemicals and pharmaceuticals, is being made available for research and experimental purposes by Eaton Laboratories, Inc., Norwich, N. Y., a wholly-owned subsidiary of Norwich Pharmacal Company.

The new chemicals, many of which, according to Eaton, have never previously been available, include some sixty derivatives of furan, nitrofuran and hydrazine which have been selected from more than five hundred compounds synthesized by Eaton Laboratories. Many of the nitrofurans, whose antimicrobial properties were discovered in 1939 at Eaton Laboratories and which have subsequently displayed marked activity against bacteria, fungi, protozoa and enzymes, are now generally available for the first time.

## Sharp & Dohme Building Chicago Office, Warehouse

Construction is now in progress on a branch office and warehouse building for Sharp & Dohme, a division of Merck & Co., at 5945 North Rogers avenue, on the outskirts of Chicago. The building is scheduled to be ready for use early in 1954. The address of the present branch building is 111 North Canal street.

The new building will have more generous quarters and will provide more efficient service to customers in an area encompassing most of Illinois, most of Indiana, the eastern half of Iowa and the southern part of Wisconsin, it was stated.

## Little Opens New Office

Arthur D. Little, Inc., Cambridge, Mass., will open a new midwest liaison office in Chicago, Illinois, it was announced today by Earl P. Stevenson, president of the company. The new branch, located in the Board of Trade Building, Room 3832, will serve as a base for midwestern clients who retain Little.

The company is expanding its activities in the midwest area. The new office will maintain a staff to carry out technical-economic, technical-audit, and market-research surveys in that area. John R. Kirkpatrick, a native midwesterner, will be manager of the office. M. Kirkpatrick participated in the industrial development activities of Little on behalf of the Puerto Rican government.

## Endo Expands in Canada

Joseph Ushkow, president of Endo Products, has announced that effective October 1 Endo pharmaceutical products will be marketed in Canada through Endo Drugs, Ltd., of Canada. Headquarters are being opened at 7000 Park avenue, Montreal 15. Establishment of an Endo Canadian branch marks the latest step in the expansion program of the Richmond Hill, N. Y., manufacturer, which recently built a completely modern sales and distribution branch office in Los Angeles.

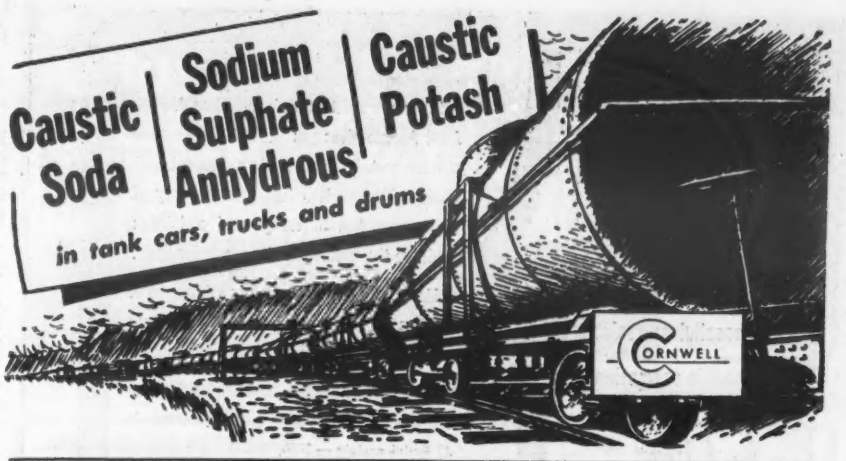
## Food Research Laboratories Inaugurates New House Organ

Food Research Laboratories, Inc., has begun publication of a new house organ called "What's New in Food and Drug Research." Edited by Dr. Bernard L. Oser, vice-president of Food Research Laboratories, the first issue of the new publication deals at some length with pending legislative action on chemical additives to food.

Running to four pages, the publication, which will appear periodically, in its first issue also discusses chlorophyll, the sugar content of beer, low sodium foods, fluoride analysis, a new book on dental caries, coumarin and iron enrichment. Persons interested in getting on the mailing list for the new publication are advised to write directly to Food Research Laboratories, Inc., 48-14 33rd street, Long Island City 1, N. Y.

## Ayerst Midwestern Sales Now Managed by Davis

William L. Davis of Ayerst, McKenna & Harrison, Ltd., has been appointed divisional sales manager of the midwestern area with headquarters in Chicago. Mr. Davis joined Ayerst, McKenna & Harrison in 1946 as a medical service representative in the Des Moines, Iowa, district, and was later transferred to a territory in Tulsa, Okla. In 1950 he was promoted to district manager, a position which he has held until his present appointment.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## Lilly Asks Review Denial In Its Suit on Fair Trade

Stressing that no questions have been raised on the fair trade laws warranting review by the Supreme Court of the United States, Eli Lilly & Co., Indianapolis, Ind., has appealed to the high court to deny a writ of certiorari sought by Schwegmann Brothers New Orleans, La., Harry A. Kimbriel, marketing vice-president of Lilly, has announced.

The pharmaceutical company's brief was filed with the supreme court by Lilly's attorneys in opposition to Schwegmann's petition for a high-court review of two lower-court rulings upholding fair trade in the case of Lilly v. Schwegmann. Both the Federal District Court and the Fifth U. S. Circuit Court of Appeals in New Orleans have upheld an injunction restraining the supermarket operator from violating Lilly's fair trade prices.

The Lilly brief says that "the constitutional questions sought to be raised" by Schwegmann's petition "have been settled by this court . . . and the petition presents no question warranting review by the court." The brief adds that the petition "for the most part . . . presents not questions of law but questions of economics which were properly to be addressed—and were in fact addressed by these same petitioners and others—to the state legislature and to congress which rejected them." It also points out that "congress and forty-five state legislatures have concluded that the fair trade laws are in the public interest."

## Becton, Dickinson Appoints

Becton, Dickinson & Co., Rutherford, N. J., has appointed Frank A. Holt, jr., secretary, John R. Dilworth, vice-president for manufacturing, Irving R. Mathews, vice-president for purchase and Richard M. Robin vice-president for international subsidiaries.

## *Trade Briefs*

**Dr. Michael Somogyl** has received the 1953 Ernst Bischoff award for clinical chemists.

**Alden H. Waitt**, vice-president of R. S. Aries & Associates, is investigating sulphur and chemical projects in Peru.

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## *Heyden Antibiotic Div. Head*

Dr. Herman Sokol has been appointed antibiotic division manager of Heyden Chemical Corporation, New York. Dr. Sokol who has been associated wth Hayden since 1944, had been manager of antibiotic research since 1950 He joined Heyden as a research chemist. From 1946 to 1948 he was in charge of streptomycin development work and pilot plant manufacturing. From 1948 to 1950 he was technical superintendent of the antibiotic division.

## *FTC Chairman Orders*

—*Continued from page 3*

products of mines and wells, lumber and wool products, automobiles, foodstuffs, building materials, and thousands of other items of every type and description.

**Lack of Follow-Through Cited**

"With respect to most of its orders," the chairman declared, "the commission does not know with any degree of certainty whether or not the respondents have continued to be in substantial compliance. An initial report of compliance is required within sixty days of the date of the order, but no further check is made unless and until a complaint is received from an outside source.

"It is useless, I submit, for the commission to enter orders unless it sees that they are obeyed, either voluntarily or through appropriate enforcement proceedings against those who deliberately or willfully ignore them," he said. "Failure to obtain compliance constitutes a waste of money, has a demoralizing effect on competitors and members of the public who have been injured, and tends to encourage a general disregard by the business community of antitrust and trade regulation laws."

As part of the study to be made by the committee, Mr. Howrey suggested the following:—

**Items Proposed for Study**

1. An analysis of the commission's powers under the recent decision of the supreme court in the Morton Salt case. In that case it was established that the commission has authority to require corporations, subject to cease and desist orders, to file special reports of compliance; that failure to file may result in mandatory injunction and money forfeiture. The feasibility and authority of the commission to inaugurate and maintain a systematic and continuous check on compliance by use of periodic special reports should be studied.

2. A survey of past antimonopoly orders to ascertain if they are still adequate in form and scope. Changed conditions may have rendered some of them inoperative or insufficient to accomplish the commissions's purpose of promoting and maintaining competition. In such cases they should be reopened and strengthened.

3. The procedures of the commission with respect to filing initial compliance reports should be reexamined. Orders uniformly contained a provision requiring the filing of a written report within sixty days, setting forth in detail the manner and form in which respondent has complied with the order. This is sometimes a difficult assignment, particularly in cases involving restraint of trade or Clayton act violations. Pricing schedules, pricing formulae, and sales policies may need revision.

## *OIT Fixes 3 Metal Quotas*

—*Continued from page 3*

829990). This amount is the same as that for the third quarter.

A total quota of 110,000 pounds (nickel content) has been established for six categories. Among them are nickel and nickel alloy powder, except pure nickel powder (B No. 619159) and other nickel manufactures, except nickel catalyst (B No. 619950). The quota set for these materials is the same as that for the third quarter.

In addition, a fourth-quarter quota of 20,000 pounds (nickel content) was established for new nickel catalyst, including nickel aluminum types (B Nos. 619950 and 619159), and 20,000 pounds for reagent grade nickel chemicals, nickel salts of organic compounds, and other nickel salts and compounds (B Nos. 829970, 839750 and 839900). The quotas established for these categories are the same as in the previous quarter. OIT also announced that spent catalyst containing not over 10 percent nickel (B No. 634503) is under open end for the third and fourth quarters.

## *Trade Briefs*

**Sindar Corporation** has announced the development of a new all-purpose, inexpensive deodorant to be sold under the trade name, "Deodall No. 1."

**George R. Gilbert,** vice-president in charge of international operations for Shenley Laboratories, Inc., has departed for a three-week business trip to western Europe.


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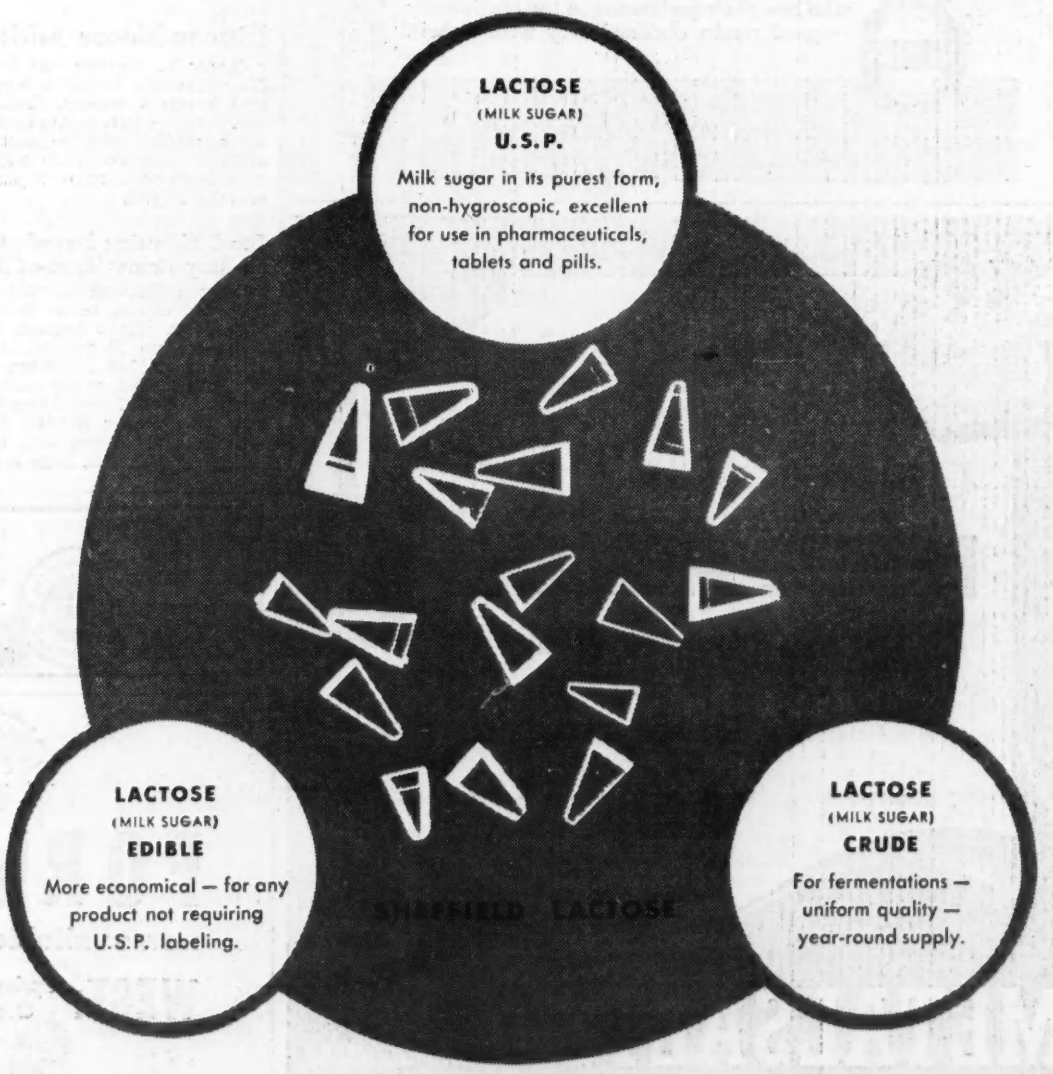


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## FDA Reports Sixty-Two Seizures Made in August

Sixty-two seizures were made in August of products alleged to be in violation of the federal food, drug, and cosmetic act, according to the Food and Drug Administration. More than 262,000 pounds of the food seized consisted of filthy or decomposed grains and cereal products, butter, eggs, seafood, spices, fruit and vegetables, poultry, and nuts. Eight other shipments of food were seized because of short weight or substandard quality.

Five drug shipments and two lots of devices were alleged to be substandard or misbranded with false and misleading curative claims. One of the devices was a hearing aid, consisting of a piece of wire twisted to resemble a miniature tuning fork, which was to be inserted into rubber discs with perforated centers. Although it was promoted as a scientific marvel of the century, and salesmen were instructed to compare it to the miracle drugs, the government charged it was ineffective. The other devices were vibrating mechanical massage chairs claimed to relieve arthritis, asthma, neuritis, sore muscles, and aching back, etc., and to improve physical fitness.

## Industrial Hygiene Group Elects Three New Trustees

The election of three new members to the board of trustees of Industrial Hygiene Foundation, Mellon Institute, Pittsburgh, Pa., has been announced by Andrew Fletcher, president of St. Joseph Lead Company, New York, and chairman of the foundation's board.

The new trustees are:—A. D. Ross Fraser, president, Rome Cable Corporation, Rome, N. Y.; Eger V. Murphree, president, Standard Oil Development Company, New York, and W. R. Elliot, vice-president for industrial relations, Jones & Laughlin Steel Corporation, Pittsburgh.

## Pitman-Moore Adds Hewson

Roger L. Hewson has been appointed New England regional manager by Pitman-Moore Company, Indianapolis, Ind. Mr. Hewson joined Pitman-Moore in 1949 as a medical service representative in eastern Massachusetts, and in 1952 he was appointed sales supervisor in the eastern region.

## Steel Shipping Barrels Output In July Below That of June

July production of steel shipping barrels and drums, on an average working-day basis, was 6 percent below that of May, but up 19 percent above the total for July of 1952, according to the Bureau of Census. During the month the industry turned out 1,975,012 heavy-type steel barrels and drums; 894,306 light-type steel barrels and drums, and 6,392,022 steel shipping packages, kegs and pails. This compares with 2,086,112 heavy-type steel shipping barrels; 894,306 light type steel shipping barrels, and 6,506,842 steel shipping packages, kegs and pails in June.


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## Cincinnati Drug Ass'n Elects Sexton President

The Cincinnati Drug and Chemical Association has elected Owen G. Sexton president for the 1953-54 season. Mr. Sexton is purchasing agent for H. Blacker Printing Ink Company, Cincinnati.

Other officers elected were:—Vice-President, Vernon B. Tucker, Mallinckrodt Chemical Works; secretary, Jack C. Hutchinson, Monsanto Chemical Company, and treasurer, Clark C. Knowland, jr., Geo. H. Knowland Company. The board of trustees includes the above officers and James R. Harrington, Monsanto; Lawrence J. Meiners, Merchants Chemical Company; S. E. Spencer, jr., Wm. S. Merrill Company, and Paul N. Weimer, jr., Paul Weimer Company, the retiring president.

## Obituaries

### George E. Ashby

George E. Ashby, a leading figure in the shellac importing trade for over sixty-five years and secretary of the United States Shellac Importers Association since 1937, died July 16 in Brooklyn, N. Y., it was reported by the association last week. He was eighty-nine years old.

Mr. Ashby began his business career in 1881 with Lewis Morris & Co., New York drug importers. In 1886 he joined Robert P. Wilson, subsequently the firm of Wilson & Anderson, brokers in shellac and varnish gums. On Mr. Wilson's death, Mr. Ashby became a partner in the firm, which was continued under the name of John R. Anderson & Co. until its dissolution in 1931. Mr. Ashby then began his own merchandise brokerage concern and continued that business until 1937 when he was elected secretary of the United States Shellac Importers Association, which post he held until his death.

### Dr. Colin G. Fink

Dr. Colin G. Fink, discoverer of the tungsten filament which made possible the mass production of electric light bulbs, died September 17 in Red Bank, N. J. He was seventy-one years old.

Dr. Fink, who was professor emeritus of chemical engineering at Columbia University, headed Columbia's department of electrochemistry from 1922 to 1950. As a researcher for General Electric Company, Dr. Fink found a copper-clad nickel and steel lead-in wire to substitute for platinum in radio tubes and lamps. He discovered a process for restoring ancient bronzes by electrochemistry, worked out a process for the preservation of stones and a method of cleaning vases without losing any of the pigment. Dr. Fink discovered a process to apply thin coats of aluminum alloys to iron, steel and other metals and found an electrolytic way to recover manganese from low grade ores.

### Charles L. Harding

Charles L. Harding, director and vice-president in charge of Middle East affairs for Socony-Vacuum Oil Company, New York, and former district director of the Petroleum Administration for War in Wold War II, died September 23 in New York. He was forty-seven years old.

Mr. Harding was elected a vice-president and member of the executive committee of Socony-Vacuum in 1953. In 1948 he was elected a director in charge of coordinating the company's Middle East interests. Previously he had been with Shell Oil Company in San Francisco.

**John A. Beach,** president of Equine Pharmaceutical Corporation, New York, died September 22 in Greenwich, Conn. He was forty-nine years old.

**Edward M. Borger,** former president of Peoples Natural Gas Company, and chairman of the board of directors of New York State Natural Gas Company, died September 20 in Sewickley, Pa. He was fifty-three years old.

**Benjamin Woolston Collins,** chief corporation chemist for American Viscose Corporation, died September 16 at Blue Mountain Lake, N. Y. He was sixty-four years old. Mr. Collins had been employed briefly by E. I. duPont de Nemours & Co., and by Amalgamated Leather Company before joining American Viscose in 1921. He was made chief chemist in 1936.

**James Le Febre,** assistant district manager, central district, of Devoe & Reynolds Company, died September 18 in Michigan City, Ind.

**Raymond D. Lepley,** a construction engineer for Atlantic Refining Company, died September 22 in Philadelphia. He was sixty-one years old.

**Walter Mays,** a retired superintendent at the Grasselli Chemical Division of E. I. duPont de Nemours & Co., Linden, N. J., died September 19 in Point Pleasant, N. J. He was seventy-eight years old.

**Thomas McQuilling,** operating manager of the Pan American Petroleum & Transport Company, New York, died September 18 in Flushing, N. Y. He was fifty-eight years old.

**Louis A. Scholl, jr.,** a geologist for Texas Company, New York, died September 22 in Houston, Tex. He was sixty-five years old. Mr. Scholl joined the company as a field geologist in 1916. In 1928 he became chief of its geophysical division.

**John Struthers, jr.,** a mechanical designer for Congoleum-Nairn Company, died September 19 in Springfield, N. J. He was fifty-three years old. Mr. Struthers had been with the concern twenty-five years.

**John J. Sullivan,** former president of National Cellulose Corporation, and founder of Sullivan Manufacturing Company, died September 17 in North Syracuse, N. Y. He was fifty-one years old.

**Otto C. Wehe,** president and founder of Pioneer Manufacturing Company, Cleveland, Ohio, died September 18 in Scarsdale, N. Y. He was seventy-four years old.

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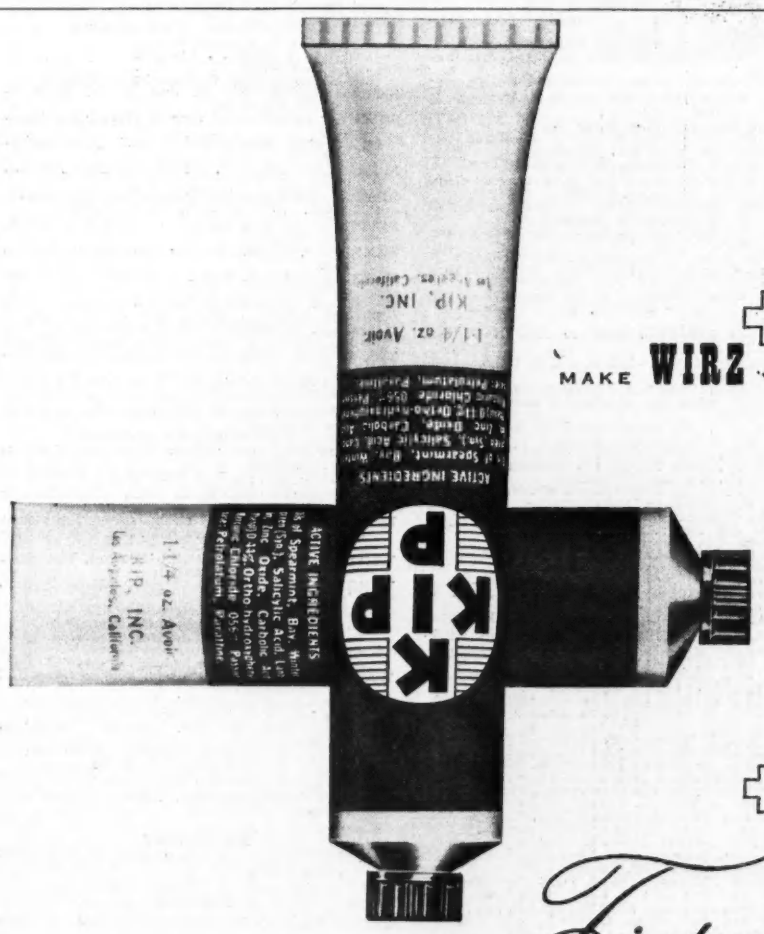


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1 dm, Commercial Products Co, Antwerp
AMMONIUM CARBONATE—33 cs, American British Chemical Supplies, Glasgow
ANILIN DYES—16 dms, Heemsoth Kerner, Liverpool
50 dms, Geigy Co, Rotterdam
43 dms, Ciba Co, Rotterdam
56 dms, Carbic Color & Chemical Co, Rotterdam
2 dms, Hensel Bruckmann & Lorbacher, Hamburg
7 dms, C A Haynes, Rotterdam
1 dm, Hensel Bruckmann & Lorbacher, Rotterdam
6 dms, Rotterdam
ANTIMONY—141 cs, Antwerp
REGULUS—50 cs, O Gitlan, Antwerp
ARABIC GUM—500 bgs, Guaranty Trust Co, Port Sudan
250 bgs, Bank of N Y, Port Sudan
50 bgs, Bankers Trust Co, Port Sudan
153 bgs, Morningstar Nicol, Port Sudan
ARSENIC, METALLIC—69 dms, Belmont Smelting & Refining Works, Gothenburg
BEESWAX—173 blks, Mercantile Metal & Ore Corp, Assab
11 bgs, General Import Distributor, Havana
17 bgs, H H Pike, Havana
50 blks, Chase National Bank, Djibouti
312 blks, African Produce Trading Corp, Assab
13 bgs, Havana
BERYL ORE—354 bgs, C Tennant Sons & Co, Beira
BLANC FIXE—800 bgs, C J Osborn, Rotterdam
BUCHU LEAVES—23 bls, S B Penick & Co, Capetown
BUTTONLAC—250 bgs, Colony Import & Export Corp, Calcutta
CADMIUM—150 cs, Industrial Sales Corp, Antwerp
CAMPHOR POWDER—50 cs, Bremen
SYNTHETIC—20 bbls, National City Bank, Hamburg
CANANGA OIL—1 dm, Internatio Rotterdam, Rotterdam
CAPROLACTAM—19 dms, Rohner Gehrig, Rotterdam
CARAWAY OIL—1 dm, Internatio Rotterdam, Rotterdam
SEED—100 bgs, Levy & Levis Co, Rotterdam
400 bgs, Spartan Trading Corp, Rotterdam
200 bgs, Rotterdam
CARNAUBA WAX—111 bgs, Dura Commodities, Rio de Janeiro
186 bgs, Interoceanic Commodities Corp, Hamburg
1,875 bgs, Parnahiba
260 bgs, Marklin Chemical Corp, Hamburg
CASEIN—1,500 bgs, Fidelity Trading Co, Buenos Aires
400 bgs, E J Lang, Buenos Aires
333 bgs, American Plastics Corp, Bordeaux
100 bgs, Guaranty Trust Co, Rotterdam
1,000 bgs, Buenos Aires
CASSIA—200 bls, Karl H Landes & E Balint, Hong Kong
CASTOR BEANS—663 bgs, Spencer Kellogg, Cap Haitien
782 bgs, Spencer Kellogg, Manta
940 bgs, Grace National Bank, Bahia
OIL—100 tons, Spencer Kellogg, Recife
336 tons, Western Cotton Oil Co, Santos
502 tons, Bunge Corp, Santos
CHILLIES—550 bgs, Irving Trust Co, Massawa
139 bgs, Public National Bank, Massawa
100 bgs, Mombasa
CINNAMON QUILLS—100 bls, C M Van Sillevoldt, Colombo
100 bls, Otto Gerdau, Colombo
CLAY, BALL—1,200 bgs, United Clay Mines, Avonmouth
CHINA—896 bgs, English China Clay Sales Corp, Avonmouth
CLOVE—148 bls, Otto Gerdau, Zanzibar
250 bls, Kellys America Ltd, Zanzibar
41 bls, Meer Corp, Zanzibar
105 bls, Fuerst Bros, Zanzibar
50 bls, C T Wilson, Zanzibar
215 bls, Bankers Trust Co, Zanzibar
35 bls, Lo Curto & Funk, Zanzibar
180 bls, Virchand Panachand, Zanzibar
130 bls, A G Dunn, Zanzibar
COALTAR DYES—5 dms, C A Haynes, Rotterdam
13 cks, George Uhe Co, Rotterdam
12 cks, Hensel Bruckmann & Lorbacher, Rotterdam
4 dms, Nova Chemical Co, Genoa
COCONUT OIL—800 tons, Lu Do & Lu Ym Corp, Cebu
28 cms, Procter & Gamble, Manila
450 tons, Pacific Vegetable Oil Corp, Manila
COLUMBITE—896 bgs, Union Carbide & Carbon Corp, Lagos
45 bgs, Watson Geach, Mombassa
COPAL GUM—74 bgs, France, Campbell & Darling, Matadi
CREAM OF TARTAR—50 dms, Mutchler Chemical Co, Genoa
CRESYLIC ACID—217 dms, H A Gogarty, Liverpool
50 dms, Wm D Neuberg, Avonmouth
95 dms, Chase National Bank, Avonmouth
50 dms, Liverpool
CUMIN SEED—259 bgs, Forex Commodity & Trading Corp, Rotterdam
DEHYDROACETIC ACID—60 cks, Dow Chemical Co, Rotterdam
DEXTRIN—300 bgs, Paisley Products, Rotterdam
100 bgs, Stein Hall & Co, Rotterdam
DICHLORINE—1 can, Hensel Bruckmann & Lorbacher, Bremen
DIOXAMINE—1 dm, Hensel Bruckmann & Lorbacher, Bremen
EARTH COLOR—14 bbls, Fezandie & Sperrle, Bremen
125 bgs, T H Deutz, Rotterdam
ERGOT—3 dms, Kellys America Ltd, Rotterdam
EUCALYPTUS OIL—3 dms, L A Champon & Co, Marseille
FISHLIVER OIL—2 dms, Consumers Import Co, Yokohama
2 dms, Vitamins Inc, Yokohama
FUEL OIL—113,612 bbls, Asiatic Petroleum Corp, Curacao
157,000 bbls, Esso Standard Oil Co, Aruba
102,112 bbls, Esso Export Corp, Aruba
45,000 bbls, Mexican Petroleum Corp, Aruba
GALLNUTS—219 bgs, Meer Corp, Beirut
GARLIC OIL — 2 cs, Magnus Mabee & Reynard, Alexandria
GARNETLAC—350 bgs, Wm Zinsser & Co, Calcutta
GELATIN—102 bgs, Transatlantic Animal By-Products Corp, Hamburg
126 dms, D H Burdett, Swansea
20 bls, Coignet Chemical Co, Antwerp
GERMANIUM DIOXIDE—4 cs, D J Ambrosio, Antwerp
GLUE—44 bgs, Morningstar Nicol, Hamburg
10 bgs, Orlex Dyes & Chemical Corp, Bremen
200 bgs, Liverpool
GLYCERIN—300 tons, Procter & Gamble, Manila
393 dms, Liverpool
GYPSUM—2,700 tons, Newark Plaster Co, Walton
10,357 tons, National Gypsum Co, Dingwall
3,417 tons, U S Gypsum Co, Hantsport
IPECAC ROOT—13 bls, H Hollander, Santos
IRON BLUE—32 dms, Van Oppen & Co, Liverpool
CARBONYL—60 dms, General Aniline Works, Antwerp
OXIDE—170 bgs, C J Osborn, Avonmouth
ISONICOTINIC ACID HYDRAZIDE—1 ck, P Bauer Co, Rotterdam
JALAP ROOT—37 bgs, Vera Cruz
JUNIPER BERRIES—154 bgs, Irving Trust Co, Leghorn
184 bgs, Leghorn
KIESERITE—2,000 bgs, Purepac Corp, Bremen
LEMON OIL—40 bxs, Home & Colonial, Rotterdam
LEMONGRASS OIL—6 dms, Chase National Bank, Cochin
LITHIUM CARBONATE—10 cks, Frank Samuel & Co, Hamburg
LOCUST BEAN GUM—40 bgs, Hanover Bank, Liverpool
400 bgs, Irving Trust Co, Barcelona
MAGNESITE—4,400 bgs, Golwynne Chemical Corp, Madras
MANGROVE BARK—1,400 bgs, Barkey Importing Co, Lourenco Marques
MARJORAM—60 bgs, G L Daste, Ciudad Trujillo
MENTHOL—350 cs, Lo Curto & Funk, Santos
MERCURIC AMMONIUM CHLORIDE—1 cs, Liverpool
MICRANTHUM HAYATA OIL—7 dms, Melanol Corp, Hong Kong
MILK SUGAR—100 dms, Liverpool
100 bgs, Rotterdam
250 dms, Gallard Schlesinger, Rotterdam
MONOSODIUM GLUTAMATE—200 dms, Universal Sales Co, Yokohama
300 dms, Wilbur Ellis Co, Yokohama
MUSTARD SEED—400 bgs, Chas Gluden, Naples
MYROBALANS—695 bgs, Barkey Importing Co, Visakhapatnam
MYRRH GUM—27 bgs, S B Penick & Co, Aden
NAPHTHALENE—700 bgs, Gallard Schlesinger, Antwerp
NAPHTHOL — 25 dms, Hensel Bruckmann & Lorbacher, Hamburg
4 dms, Orlex Dyes & Chemical Corp, Rotterdam
2 dms, Gorman Anderson Corp, Rotterdam
NICKEL SULPHATE—20 bbls, A C Toepfer, Bremen
NUTMEG—250 bls, George Lueders & Co, Padang
OCOTEA CYMBARUM OIL—58 dms, Geismar & Co, Itajai
OITICICA OIL—205 dms, Parnahiba
OLIVE OIL—125 dms, Schroder Bros, Marseilles
50 dms, De Rosa Inc, Marseilles
50 dms, B Fillippone & Co, Marseilles
OURICURY WAX—632 bgs, Interoceanic Commodities Corp, Avonmouth
PALM OIL—205 tons, Procter & Gamble, Matadi
205 tons, Packers Ltd, Matadi
PAPAIN—98 hlf chts, Chas L Huisking & Co, Colombo
66 cs, Chas L Huisking & Co, Colombo
50 cs, Chas L Huisking & Co, Dar es Salaam
54 cs, National City Bank, Dar es Salaam
9 cs, Chas L Huisking & Co, Mombasa
50 cs, Whitehall Shipping Co, Mombasa
8 cs, Mombasa
PARACHLOROMETACRESOL—10 kgs, H A Gogarty, Liverpool
PATCHOULI LEAVES—285 bgs, L A Champon & Co, Zanzibar
OIL—4 dms, Tombarel Products Corp, Penang
PEATMOSS—9,650 bls, Premier Peatmoss Corp, Bremen
2,000 bls, Lewis International Co, Bremen
750 bls, J E Bernard, Bremen
8,450 bls, Bruco Peatmoss Corp, Bremen
1,000 bls, State Export Co, Bremen
4,000 bls, E J Lang, Bremen
1,150 bls, Lewis International Co, Rotterdam
400 bls, Halfmoon Manufacturing & Trading Co, Rotterdam
2,000 bls, New Amsterdam Import Co, Bremen
400 bls, C Gastmeyer, Rotterdam
2,500 bls, E Dunwoody, Bremen
2,800 bls, Atkins & Durbrow, Bremen
PENTAERYTHRITOL—200 dms, John Block & Co, Rotterdam
PEPPERMINT OIL—25 cs, Norda Ltd, Kobe
PEPPER, BLACK—1,435 bgs, G H Winram, Kuching
665 bgs, A C Israel, Kuching
245 bgs, Internatio Rotterdam, Kuching
70 bgs, A C Israel, Singapore
38 bgs, Internatio Rotterdam, Oosthaven
120 bgs, Borneo Sumatra Trading Co, Oosthaven
70 bgs, A G Dunn, Singapore
35 bgs, Virchand Panachand, Singapore
35 bgs, East India Trading Co, Singapore
35 bgs, Joensson & Cross, Singapore
140 bgs, Internatio Rotterdam, Singapore
80 bgs, J Berlage, Cochin
320 bgs, Mincing Trading Corp, Cochin
40 bgs, Chase National Bank, Cochin
80 bgs, Ludwig Mueller, Cochin
120 bgs, Wolmet Raw Products, Cochin
360 bgs, A C Israel, Cochin
80 bgs, Mincing Trading Corp, Oosthaven
240 bgs, Joensson & Cross, Colombo
160 bgs, Joensson & Cross, Cochin
280 bgs, A G Dunn, Cochin
40 bgs, C Czarinkow, Cochin
80 bgs, Peter Commercial Corp, Cochin
420 bgs, Far Eastern Rubber Importers, Kuching
280 bgs, Borneo Sumatra Trading Co, Kuching
80 bgs, P Elbegon, Cochin
45 bgs, Far Eastern Commodities Corp, Rotterdam
80 bgs, Polak Trading Co, Cochin
120 bgs, Volkart Bros, Cochin
40 bgs, Cochin
PERU BALSAM—4 dms, Wessel Duval & Co, Corinto
PETROLEUM, CRUDE—355,000 bbls, Socony Vacuum Oil Co, Puerto La Cruz
600,000 bbls, Esso Standard Oil Co, Puerto La Cruz
125,071 bbls, California Oil Co, Sidon
244,373 bbls, Cities Service Oil Co, Amuay Bay
PHTHALIC ACID—1,102 bgs, Rotterdam
ANHYDRIDE—400 bgs, American Cyanamid Co, Rotterdam
1,000 bgs, Chematar Inc, Genoa
POLLACKLIVER OIL—150 dms, E F Drew & Co, Yokohama
200 dms, Amster Trading Co, Yokohama
80 dms, Albumina Supply Co, Yokohama
50 dms, J D Smith Interocean, Yokohama
25 dms, Alltransport Inc, Yokohama
POPPY SEED—100 bgs, Potter McCune Co, Rotterdam
300 bgs, Levy & Levis Co, Rotterdam
POTASSIUM PRUSSIATE—400 bgs, Haras Co, Rotterdam
PYRETHRUM FLOWERS—125 bls, McLaughlin Gormley King Co, Mombasa
125 bls, S B Penick & Co, Mombasa
QUEBRACHO EXTRACT—200 bgs, American Dyewood Co, Glasgow
440 bgs, Intern Products Corp, Buenos Aires
QUICKSILVER—75 flks, Lo Curto & Funk, Tampico
56 flks, L Berbrich, Vera Cruz
108 flks, G Jimenez, Vera Cruz
100 flks, L H Keller, Tampico
50 flks, Tampico
RED EARTH—672 bgs, C J Osborn, Avonmouth
672 bgs, Smith Chemical & Color Co, Avonmouth
ROSIN—20 cs, Bank of Athens, Piraeus
SABADILLA SEED—200 bgs, Wessel, Duval & Co, La Guaira
SAGE LEAVES—167 bls, M J Golombeck, Naples
100 bls, Louis Furth, Naples
140 bls, Karl H Landes & E Balint, Genoa
SAGO FLOUR—552 bgs, Chase National Bank, Singapore
163 bgs, Chemical Bank, Singapore
SALICYLAZO SULPHAPYRIDINE—5 kgs, Pharmacia Lab, Gothenburg
SAPONIN—8 cs, Karr Ellis Co, Hamburg
SARSAPARILLA ROOT—7 bls, Tampico
SEEDLAC—150 bgs, Chase National Bank, Bangkok
250 bgs, P N Rowe, Bangkok
324 bgs, Colony Import & Export Corp, Bangkok
250 bgs, Haeuser Shellac Co, Bangkok
768 bgs, Gillespie-Rogers-Pyatt, Bangkok
240 bgs, J S Chawla, Bangkok
154 bgs, Mac Lac Co, Bangkok
156 bgs, Balfour Guthrie, Bangkok
400 bgs, Mac Lac Co, Calcutta
600 bgs, Gillespie-Rogers-Pyatt, Calcutta
750 bgs, Mantrose Corp, Calcutta
200 bgs, Parks Co, Calcutta
100 bgs, Schwab Bros, Calcutta
600 bgs, Wm Zinsser & Co, Calcutta
450 bgs, C H Timm, Calcutta
500 bgs, Suhr & Bundelman, Calcutta
100 bgs, Ralli Bros, Calcutta
950 bgs, Calcutta
SENNA LEAVES—102 bls, Ottomann Bank, Port Sudan
200 bls, Prentiss Drug & Chemical Co, Tuticorin
100 bls, Sterling Drug Inc, Tuticorin
50 bls, Meer Corp, Tuticorin
SERPENTINA ROOT—40 bgs, Meer Corp, Tuticorin
40 bgs, Kellys America Ltd, Cochin
SESAME SEED—500 bgs, Wm G Scarlett, Corinto
SHARKLIVER OIL—40 dms, Arista Oil Products Co, Keelung
20 dms, Collett-Week-Nibecker, Keelung
SHELLAC—200 bgs, Mac Lac Co, Calcutta
675 bgs, Wm Zinsser & Co, Calcutta
100 bgs, C H Timm, Calcutta
100 bgs, Ralli Bros, Calcutta
300 bgs, Calcutta
14 bgs, F H Paul & Stein Bros, Rotterdam
SKIPJACKLIVER OIL—10 dms, Collett-Week-Nibecker, Yokohama
SODIUM CYANIDE—100 dms, D Hauser Co, Hamburg
SULPHATE, ANHYDROUS—3,402 bgs, Rotterdam
SPERM OIL—550 dms, Arista Oil Products Co, Pisco
STARCH—2,000 bgs, Alltransport Inc, Rotterdam
140 bgs, Morningstar Nicol, Rotterdam
SULPHUR—144 bgs, Goodyear Tire & Rubber Co, Vera Cruz
TANNING EXTRACT—41 dms, Geigy Co, Rotterdam
TAPIOCA—109 bgs, Stein, Hall & Co, Tandjong Priok
56 bgs, Internatio Rotterdam, Tandjong Priok
FLOUR—1,600 bgs, Stein, Hall & Co, Itajai
85 bgs, Morningstar Nicol, Rotterdam
1,000 bgs, W R Grace & Co, Tandjong Priok
TEA WASTE—2,136 bgs, Citro Chemical Co, Calcutta
TOLU BALSAM—13 cs, Max Van Pels, La Union
3 dms, Magnus Mabee & Reynard, La Union
TRICHLOROETHYLENE—154 dms, Chemical Mfg Co, Liverpool
17 dms, Berg Chemical Co, Genoa
TUNG OIL—661 tons, Pacific Vegetable Oil Corp, Buenos Aires
TUNU GUM—149 cs, L A Dreyfus Co, Corinto
ULTRAMARINE BLUE—25 cks, Fezandie & Sperrle, Rotterdam
UREA—180 bgs, Terra Chemicals Inc, Rotterdam
800 bgs, National Shawmut Bank Boston, Antwerp
VANADIUM CONCENTRATES—800 bgs, Vanadium Corp of America, Callao
VANILLA BEANS—68 cs, First National Boston, Marseille
28 cs, R L Oppenheimer, Marseille
13 cs, George Lueders & Co, Marseille
52 cs, Dammann & Smeltzer, Marseille
43 cs, Zink & Trieste, Marseille
14 cs, Nederlandsche Handel, Semarang
WATTLE EXTRACT—1,040 bgs, Barkey Importing Co, Mombasa
WHITING—1,400 bgs, Pluess Staufer, Antwerp
2,600 bgs, N H Weitzner, Antwerp
WOLFRAM ORE—200 bgs, National City Bank, Lisbon
200 bgs, Chase National Bank, Rotterdam
205 dms, Chase National Bank, Bordeaux
WOOL GREASE—10 dms, Paul Blum Co, Antwerp
ZINC CHLORIDE—98 dms, Riches Nelson, Antwerp

## Baltimore

ANTIMONY ORE—494 bgs, S A Minerals & Mdse Corp, Callao

## Boston

SPERM OIL—200 dms, Scandinavian Oil Co, Pisco

## Los Angeles

ARSENIC—154 dms, National Shawmut Bank of Boston, Marseilles
CALCIUM NITRATE—20,000 bgs, Wilson & Geo Meyer & Co, Heroya
CARAWAY SEED—150 bgs, R J Spitz Inc, Rotterdam
CASEIN—400 bgs, Borden Co, Buenos Aires
CASSIA—456 pkgs, Rotterdam
COPRA—1,304 tons, Procter & Gamble Co, Cebu
564 tons, Procter & Gamble Co, Zamboanga
500 long tons, Copra Oil & Co, Ltd, Dumaguete
400 long tons, American Trust Co, Tabaco
100 long tons, American Trust Co, Legaspi
500 long tons, The Vegetable Oil Products Co, Inc, Legaspi
250 long tons, American Trust Co, Jose Panganiban
500 long tons, Paul X Smith, Manila
600 tons, The American Trust Co, Cebu
CAKE—2,000 bgs, Balfour Guthrie & Co, Cebu
4,000 bgs, Pacific Vegetable Oil Corp, Cebu
500 tons, Vegetable Oil Products Co, Cebu
3,193 bgs, Pacific Vegetable Oil Corp, Manila
6,720 bgs, Wilbur Ellis Co, Manila
DICALCIUM PHOSPHATE—1,102 bgs, Woodward & Dickerson Inc, Antwerp
FISH MEAL — 1,014 bgs, Lindfor Chemical Co, Buenos Aires
2,006 bgs, Agadir
MAGNESIUM CHLORIDE — 1,000 bgs, Carnegie Chemical Manufacturing Corp, Hamburg
MOLASSES—571 tons, Pacific Molasses Co, Topolobampo
MONOSODIUM GLUTAMATE — 50 cs, Universal Sales Co, Yokohama
OLIVE OIL—35 dms, Tama Trading Co, Marseilles
OREGANO—378 bgs, Hismoco American Co, Marseilles
PEAT MOSS—300 bls, W R Grace & Co, Bremen
400 bls, Atkins Kroll & Co, Bremen
250 bls, Lastreto-Phillips Commercial Co, Bremen
500 bls, John Schumacher Co, Bremen
1,600 bls, H V Nootbaar Co, Bremen
300 bls, Wilbur Ellis Co, Bremen
250 bls, Lastreto-Phillips Commercial Co, Rotterdam
800 bls, Wilbur Ellis Co, Hamburg
PEPPER, BLACK—80 bgs, Mincing Trading Corp, Djakarta
84 bgs, Internatio Rotterdam, Djakarta
150 bgs, U S & Indonesia Trading Corp, Djakarta
WHITE—16 bgs, B C Ireland Inc, Djakarta
PETROLEUM, CRUDE—174,639 bbls, The Texas Co, Sungai Pakning
8,888,166 gals, The Texas Co, Sidon Lebanon
POLLACKLIVER OIL—700 dms, Van Camp Sea Food Co Inc, Yokohama
QUEBRACHO EXTRACT—1,057 bgs, First National Bank of Boston, Buenos Aires
1,000 bgs, W R Grace & Co, Buenos Aires
1,069 bgs, River Plate Corp, Buenos Aires
SESAME SEED—250 bgs, W R Grace & Co, Corinto
RESIN, SYNTHETIC—25 pkgs, Antwerp
TRICHLORETHYLENE—100 dms, New York Hanseatic Corp, Rotterdam
179 dms, Nylos Trading Corp Inc, Venice

## Philadelphia

ANTIMONY REGULUS—95 cs, Split
ASBESTOS FIBER—323 tons, Keasby & Mattison, Beira
847 bgs, Phila National Bank, Durban
467 bgs, Keasby & Mattison, Liverpool
2,138 bgs, Phila National Bank, Lourenco Marques
1,875 bgs, Keasby & Mattison, Beira
BERYLLIUM ORE—60 tons, C Tennant Sons & Co, Beira
2,226 bgs, Chas Kurz Co, Buenos Aires
BONEMEAL—1,800 bgs, W Harris & Co, Manchester
CASTOR OIL—160 tons, Bunge Corp, Santos
CODLIVER OIL—100 dms, Oslo
CRESYLIC ACID—100 dms, Concord Chemical Co, Liverpool
60 dms, Bank of New South Wales, Sydney
400 dms, Concord Chemical Co, Rotterdam
CRYOLITE—4,400 tons, Penna Salt Co, Tuigtut
DICALCIUM PHOSPHATE—595 bgs, Corn Exchange Bank, Antwerp
FERRIC CHLORIDE—169 dms, National City Bank, Bremen
FUEL OIL—76,998 bbls, Socony Vacuum Oil Co, Curacao
103,000 bbls, Esso Standard Oil Co, Aruba
GYPSUM—6,282 tons, U S Gypsum Co, Hantsport
345 bgs, Belay Co, Liverpool
LIVERMEAL—1,000 bgs, Chase National Bank, Bergen
MAGNESITE—341 tons, Rijeka
MOLASSES—1,213,350 gals, Publicker Co, Pastillo
731,958 gals, Jucaro
NAPHTHALENE—2,777 bgs, Barrett Division, Rotterdam
PEATMOSS—1,000 bls, Bank of Manhattan Co, Bremen
800 bls, Bruco Peatmoss Corp, Bremen
1,335 bls, Credit Sussie, Bremen
PETROLEUM, CRUDE—200,316 bbls, The Texas Co, Sidon
113,671 bbls, The Texas Co, Las Piedras
119,706 bbls, Atlantic Refining Co, Pamatacual
335,348 bbls, Atlantic Refining Co, Puerto La Cruz
562,137 bbls, Gulf Oil Corp, Mena Al Ahmadi
261,278 bbls, Gulf Oil Corp, Puerto La Cruz
246,670 bbls, Socony Vacuum Oil Co, Covenas
185,607 bbls, Socony Vacuum Oil Co, Mena Al Ahmadi
RAPESEED—700 bgs, Rotterdam
UREA—2,000 bgs, Rohm & Haas, Oslo
3,600 bgs, Chemical Manufacturing Co, Manchester
16,500 bgs, Middlesbrough
WATTLE EXTRACT — 832 bgs, Manufacturers Trust Co, Durban
WHITING—2,600 bgs, Pluess Staufer, Antwerp

## San Francisco

AMMONIUM CARBONATE—134 dms, C M C Chemicals, Liverpool
ASBESTOS FIBER—3,200 bgs, Keasby & Mattison, Beira
2,260 bgs, Thornley & Pitt, Durban
705 bgs, Keasby & Mattison, Lourenco Marques
600 bgs, Pabco Products, Lourenco Marques
BONEMEAL—1,974 bgs, M Pincoffs Co, Hamburg
3,498 bgs, M Pincoffs Co, Rotterdam
CELERY SEED—87 bgs, Internatio Rotterdam, Bombay
COCONUT OIL—370 tons, Pacific Vegetable Oil Corp, Manila
COPRA—500 tons, Bank of California, Cebu
300 tons, Pacific Vegetable Oil Corp, Manila
165 tons, El Dorado Oil Works, Catanauan
500 tons, American Trust Co, Zamboanga
500 tons, Cargill Inc., Iloilo
250 tons, Pacific Vegetable Oil Corp, Iloilo
500 tons, Cargill Inc, Cebu
500 tons, El Dorado Oil Works, Jolo
CAKE—2,000 bgs, Internatio Rotterdam, Cebu
800 bgs, Balfour Guthrie, Cebu
MEAL—1,000 bgs, Balfour Guthrie, Manila
FISHMEAL—1,962 bgs, Albumina Supply Co, Yokohama
4,000 bgs, Balfour Guthrie, Yokohama
GRAPHITE—75 bgs, Pacific Graphite Co, Colombo
PEATMOSS—1,450 bls, Lastreto Phillips, Rotterdam
1,000 bls, E H Appelby, Hamburg
PEPPER, BLACK—84 bgs, G H Winram, Singapore
PETROLEUM, CRUDE—179,631 bbls, Standard Oil Co, Ras Tanura
148,160 bbls, Standard Oil Co, Sungai Pakning
17,978 tons, Tide Water Assoc Oil Co, Mena Al Ahmadi
SAGO FLOUR—112 bgs, Chase National Bank, Singapore
SEEDLAC—274 bgs, East Asiatic Co, Bangkok
136 bgs, H M Newhall & Co, Bangkok
TAPIOCA FLOUR—100 bgs, Wing Chong Lung Co, Bangkok
UREA—3,333 bgs, Bunge Corp, Yokohama
1,762 bgs, Atkins Kroll & Co, Rotterdam

## Bids Wanted

**Chemicals,** 192 1-oz. bots. uranyl nitrate, hexahydrate, ACS, 28.416 1-oz. bots. sodium nitrate ACS, inv. 59, Oct. 2, Armed Services Medical Procurement Agency, 84 Sands St., Bklyn. 1, N. Y.; 150,000 lbs. sodium silicofluoride, 2,000,000 lbs. aluminum sulphate, Req. #R-2589-G, Oct. 13, Procurement Officer, Procurement Division, Panama Canal Company, 24 State St., N. Y. 4, N. Y.

**Gas,** 10,000,000 cu. ft. nitrogen, Grade A, type 1, 2,000,000 cu. ft. oxygen, Grade A, type 1, inv. 8, Oct. 9 Headquarters, Middletown Air Force Depot, Olmsted AFB, Middletown, Pa.

**Paint,** 400 gals in 5-gal. cans exterior paint, oil with lead-zinc, inv. 33, Oct. 2, Pine Bluff Arsenal, Contracting Officer, Arsenal, Ark.; 31,000 gals. gloss enamel, various destinations, inv. B-54,555, Oct. 2, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

**Sodium cyanide,** 21,000 lbs., various destinations, inv. 1788, Oct. 13, Navy Purchasing Office, Navy Dept., 111 E 16th St., N. Y. 3, N. Y.

## LaPine & Co. Offers Wall Chart

Arthur S. La Pine & Co., Chicago, has developed a rubber tubing wall chart designed for maximum convenience and instant reference for use in storerooms and laboratories. The chart includes eighteen actual size illustrations of amber and black tubing, giving inside and outside dimensions, physical properties and prices. It has a metal eyelit for hanging on the wall and is 8½ inches by 11 inches for filing as desired. The chart will be sent upon request at no charge.

## ACS Discloses Names Of Ten Medal Winners

Dr. Betty Sullivan, vice-president and director of the Russell-Miller Milling Company, Minneapolis, Minn., and an authority on the chemistry of wheat and flour, has been awarded the American Chemical Society's Garvan medal for 1954. The gold medal is given annually to recognize "distinguished service to chemistry" by women chemists.

Prof. Harry N. Holmes of Oberlin College Prof. Raymond E. Kirk of the Polytechnic Institute of Brooklyn, and seven other leaders in various fields of chemical science and engineering also have been named award winners by Professor Farrington Daniels, president of the society. All ten awards will be presented at the society's 125th national meeting in Kansas City, Mo., next spring.

Prof. Holmes, a former president of the society who retired as head of the Oberlin chemistry department in 1945, was chosen as first recipient of the new Kendall Company award in colloid chemistry. The $1,000 prize is sponsored by Kendall Company, Boston. Dr. Holmes, who isolated vitamin A, has long been one of the nation's foremost authorities on colloid chemistry and was formerly chairman of the subcommittee on colloid chemistry of the National Research Council.

Prof. Kirk will receive the $1,000 Scientific Apparatus Makers award in chemical education. Currently a member of the board of directors of the American Chemical Society, Professor Kirk taught at the University of Minnesota and Montana State College before joining the Brooklyn Polytechnic faculty in 1931. The $1,000 American Chemical Society award in pure chemistry goes to Dr. John D. Roberts, professor of organic chemistry in the California Institute of Technology. A second California Institute of Technology representative, Dr. Harvey A. Itano, was named to receive the $1,000 Eli Lilly & Co. award in biological chemistry. A. R. Penfold of the Museum of Applied Arts and Sciences of Sydney, Australia, has been designated for the Fritzsche award of $1,000 and a gold medal for achievement in the field of essential oils. This prize is sponsored by Fritzsche Brothers, Inc., New York.

For the fourth consecutive year a chemist of the National Institutes of Health, Bethesda, Md., has won the $1,000 Paul-Lewis Laboratories award in enzyme chemistry. He is Dr. Alton Meister, of the National Cancer Institute. Dr. G. Frederick Smith, who completed thirty years of teaching analytical chemistry at the University of Illinois in 1951, was named to receive the $1,000 Fisher award in analytical chemistry, sponsored by the Fisher Scientific Company. The Borden award in the chemistry of milk will go to Dr. Donald V. Josephson of Pennsylvania State College. Selected for the Precision Scientific Company award in petroleum chemistry is Dr. Arthur P. Lien, of Standard Oil Company (Indiana).

## Smith-New York Now Producing ADA Esters

Smith-New York Company, Freeport, N. Y., has started up production of acetonedicarboxylic acid (ADA) esters. The company is offering the diethyl ester in large-scale amounts, while other ADA esters are being marketed in laboratory quantities. The company has issued a one-page preliminary literature summary which it is offering on request.

## DL-Ethionine Being Offered In Kilos by Mann Research

Mann Research Laboratories, Inc., New York, has announced that it is offering kilo quantities of dl-ethionine, the analog of dl-methionine, which is being used extensively in cancer research. Improved raw material supply is permitting large scale production, the company said. Prices have been reduced more than 50 percent.

## Schenley Moves Sales Office

Schenley Laboratories, Inc., has transferred its national sales office from Lawrenceburg, Ind., to 350 Fifth avenue, New York. The move is part of a program by the concern to centralize all departmental headquarters in the east. Schenley will continue to service its distributors via two supply depots—one in New York for the eastern half of the country and a western depot in San Francisco for states west of and including North Dakota, South Dakota, Nebraska, Kansas, Oklahoma and Texas.


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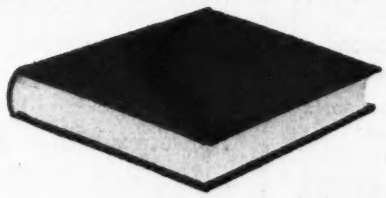

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# Botanical Drugs, Spices, Gums

Business in the botanicals market was marked last week by an increased volume of price activity. Consumer interest was noted to have picked up in recent weeks, notably in items which go into Fall pharmaceutical lines. Wild cherry and white pine barks continued scarce and prices on these items advanced. Ergot advanced considerably over the preceding week's levels. Higher replacement costs have been attributed to the rising prices on ergot. Dealers predicted continued firmness in the immediate future.

Ipecac was firmer with substantial increases noted in the whole and powdered root. Cascara sagrada also advanced as did deer tongue and yerba santa leaves.

Vanilla beans continued firm with very few offerings reported from primary sources. Some trade quarters expect prices to continue to strength. Tonka beans were quiet and unchanged. Mustard seed continued steady and unchanged. Domestic production of mustard seed has been reported as being 42 percent under last year's crop. Domestic growers of the seed were said to have found it more profitable to grow other crops. Meanwhile imports of mustard seed continue at a high level. Acreage devoted to mustard in Holland was reportedly down 6 percent from that planted last year. Czech anise seed was higher in addition to the Mexican variety. No. 2 Ceylon cinnamon was advanced. Poppy seed was higher as was African ginger.

Black pepper advanced late in the week. The threat of a dock strike was thought to have some effect on prices here, according to some sources. White pepper held unchanged. Goldenseal root worked lower. Zanzibar clove declined. An export tax at the source was slated to go into effect on October shipments. There was speculation as to whether it would be absorbed at the source or passed on to dealers here.

## Barks

**Cascara Sagrada**—The market was firmer on this item last week. There was an advance of 1½c. per pound, bringing the current range to 30c. to 34c.

**White Pine** — Consumer interest was said to be stepping up on this medicinal. Prices were up 3c. from the preceding week's level and it was currently offered at 20c.

## Beans

**Vanilla**—The market continued very firm. Importers reported that sellers abroad remain reluctant in offering material. Some trade sources expect the market to continue firm with the possibility of further strengthening in prices. Business volume continued good in this commodity and was expected to be maintained at these levels in the immediate future, according to some trade sources.

The current range on the Bourbon variety was from $5.75 to $6.50 per pound while Tahitian were quoted from $4.25 to $4.50. Mexican whole ranged from $6 to $6.50 with the cut material 50c. lower.

## Gums

**Karaya**—The market abroad has been reported to be showing considerable firmness. Rising costs abroad, however, have not been reflected here, as yet. Some trade sources do not expect that there will be any immediate advances in this commodity by domestic dealers since the demand for the gum was said to be only fair at current price levels.

Currently Karaya gum, NF, No. 1, was offered at 30c. to 35c. No. 2 grade was quoted from 24c. to 28c. phile No. 3 material was 19c. to 21c.

**Tragacanth**—Prices here were unchanged to date, despite reportedly firmer market conditions abroad. Demand was said to be generally fair, at best. There was reportedly little likelihood that the domestic market will reflect the higher asking prices abroad in the immediate future, according to trade sources.

## Leaves

**Catnip**—Catnip leaves were down 5c. from the preceding week's price. This commodity was currently offered at 75c.

**Deer Tongue**—Deer tongue leaves were firmer last week with the market advancing 3c. The price range was currently from 45c. to 48c. per pound.

## Miscellaneous

**Ergot**—Higher replacement costs were responsible for the continued strengthening in this commodity. Last week saw the price increase 60c. per pound over the preceding week's price levels. The current range was from $3.75 to $4.25. The market trend was for continued firmness, according to trade sources.

## Roots

**Aletris**—Prices continued to advance under the influence of the relatively small stocks now held by dealers. A former price range including a minimum of $1.20 per pound was moved up to a spread of $1.25 to $1.75. Material gathered from the summer's crop was small in size, according to reports in the trade. Consequently, the root was expected to remain on the list of items in short supply for some time.

**Belladonna**—Prices advanced by 5c. per pound over the earlier minimum of 35c., making the current range 40c. to 45c. Demand for the material was said to be good but not spectacularly heavy.

**Cohosh**—Blue root was firmer over the week. Prices in effect earlier were revised to show an increase of 7c. on the low-of-the-range quotations, putting this figure up to 26c. Black root was unchanged in price. Both were reported in fairly tight supply, with very little prospect of an easier status in the foreseeable future.

**Goldenseal**—Prices were lowered for this material. A drop of 25c. per pound brought the NF, tested, grade to $2.25. Powdered material was lowered to a minimum quotation of $2.75, a decline of 35c. Inquiry on this item has been weak for some time, and no appreciable improvement was to be seen in the past week, it was stated in the trade.

**Ipecac**—Whole and powdered material were both advanced sharply in price. Whole increased 40c. to a new minimum listing of $6 per pound. An advance of 50c. brought the low for powdered up to $6.50. As one of the more important botanical

## *Price Trends*

**Advanced**

*Drugs*

Belladonna, 5c. per lb.
Cascara sagrada, 1½c. per lb.
Cohosh, blue, 3c. per lb.
Deer tongue leaves, 3c. per lb.
Ergot, 60c. per lb.
Ipecac, whole, 40c. per lb
powdered, 50c. per lb.
Sassafras, ord., 5c. per lb.
Spearmint, 5c. per lb.
White pine bark, 3c. per lb.
Yerba santa, 8c. per lb.

*Other Articles*

Anise seed, Czech, 1c. per lb.
Mexican, 2½c. per lb.
Caraway seed, Dutch, ¾c. per lb.
Cinnamon, Ceylon, No. 2, 2c. per lb.
Coriander seed, Roumanian, ¼c. per lb.
Ginger, African, ½c. per lb.
Niger seed, ½c. per lb.
Pepper, black, Malabar, spot, 6c. per lb
Red, Japanese, hontaka, 3c. per lb.
Turkish, 1c. per lb.
Pimento, Jamaica, 2c. per lb.
Pepper, black, Malabar, spot, 2c. per lb.
Polish, ½c. per lb.
Turkish, 1c. per lb.
Sesame, Nicaragua, ½c. per lb

**Reduced**

*Drugs*

Catnip leaves, 5c. per lb.
Goldenseal root, NF, tested, 25c. per lb.
powdered, 35c. per lb.
Sassafras, select, 5c. per lb.
Witch hazel leaves, 1c. per lb.

*Other Articles*

Clove, Zanzibar, 7c. per lb.
Fennel seed, Indian, ½c. per lb
Ginger, Jamaica, No. 2, 1c. per lb.
No. 3, ½c. per lb.
Rhattoon, ½c. per lb.
Psyllium husks, 3c. per lb.

**Comparative Price Indexes**

(100=1949 average)

| Last week | Prev. week | Last month | Sept. 26, 1952 |
|---|---|---|---|
| 111.25 | 110.31 | 109.84† | 103.29 |

† Revised.

*(For Current Prices see page 9)*

## *Imports Detained by FDA*

**Week Ended September 18**

**New York**

Black pepper, 18 lots, 1,014 bags: mold; insects.
Cassia, 92 bales: filthy
Cumin seed, 40 bags: filthy.
Cloves, 50 bales: filthy.
Lemon oil, 3 lots, 54 cases: other oil substituted.
Mace, 4 lots, 76 cases; filthy.
Nutmegs, 100 bags: wormy and moldy.
Oreganum, 3 lots, 125 bags: filthy.
Sage leaves, 453 bales: filthy.

*For Late Market Developments, See Page 4*


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drugs on the market, interest was expected to be active for this material over the coming months.

**Licorice**—While natural moved up 1c. to a new minimum of 8c. per pound, other varieties were steady. Powdered was quoted from 15c. per pound, and the root in granular form ranged upward from 12c. Considerable interest in the trade was directed toward this material because of recent detentions by FDA. The situation raised several questions, one of which was whether foreign shippers would guarantee inspection passage.

## Seeds

**Anise**—Czech and Mexican anise was firmer with the former advancing 1c. per pound over the preceding week to 15c. Mexican anise was quoted at 17c., a jump of 2½c. over earlier levels.

No prices were quoted for Chinese Star material, as no stocks were available. It was not known when replacement would be possible.

**Caraway**—A considerably firmer market was expected by reason of recent developments in Holland. Earlier estimates of storage of caraway seed were too high, it has been reported. Cleaning and shrinkage of seed stored by farmers may reduce the stocks there by as much as 25%. In addition, estimates of the quantity harvested in this year's crop show a considerable loss because of the spring floods.

Dutch caraway was up ¾c. per pound last week. The current price on this commodity was 11c.

**Mustard**—Acreage in Holland is down 6% over last year's, it has been reported. However, the actual yield is down even more than this amount. Production of 10,312 tons has been reported for 1953, in comparison with 13,691 tons in 1952. The weather factor was important in causing the lower yield, it was said. Domestic production of mustard seed has been reported as being some 42 percent under last year's crop. Growers of the seed, most of which is produced in California and Montana, were said to have found other crops more profitable. Last year's imports were a record and this year's has been running at a high level, to date.

**Poppy**—An improvement of 9% in this year's poppy seed yield in Holland has been reported. A total of 808 tons has been reported, as compared with 731 tons for 1952. The quality of the new material is good, according to the latest reports. A firm market can be expected for the immediate future, it was stated, since a large amount of the material is being held by the farmers rather than by dealers.

Dutch poppy seeds advanced 1c. last week bringing the range to 17c. to 17¼c. Polish seeds were up ½c. per pound to 15½c. to 16c. Turkish poppy were ¼c. higher at 13 to 14c.

## Spices

**Cinnamon** — Ceylon cinnamon, No. 2, advanced 2c. per pound to 31c. last week. The rise was attributed to higher prices at the source. "0000" grade was unchanged, remaining at 40c.

**Clove**—Zanzibar clove prices dropped 7c. to $1.35 per pound. A 13¾c. export tax was reported to be due to go into effect on October shipments. Whether the tax will be absorbed by sellers at the source remained conjectural Ceylon variety remained nominal.

**Ginger**—African ginger showed some firmness with the low side of the price range showing a ½c. rise last week. The current price range on African material was 12½c. to 13c. Jamaica, No. 2, was off 1c. from the preceding week and was quoted at 13½c. to 14c. No. 3 and Rhatton were down ½c. with the former at 12½c. to 13c. and the latter ranging ½c. below that quotation. Nigerian was unchanged at 10½c. to 11c.

**Paprika**—Czech paprika was nominal. The Spanish material was quoted at 45c. to 46c. New crop arrivals will find a market well cleaned out of old holdings, it was stated in the trade. Material from Spain has been offered rather reluctantly, it is said, but bookings to cover the next three months have been made. Buying at current price levels to cover at least part of coming requirements was recommended by trade observers.

**Pepper**—Black pepper prices showed increased firmness late in the week with Malabar, on spot, quoted at $1.36. September shipment was listed at $1.16 and October shipment at $1.10. Sarawak was quoted at $1.25, on spot with September and first half of October at $1.00, ex dock. White pepper held unchanged at $1.20. Sarawak and Malabar pepper awaiting FDA release were quoted at $1.18 and $1.27 per pound, respectively.

Friday prices for black pepper were as follows:—Spot, $1.32; afloat, $1.19; September shipment, $1.12; October shipment, $1.08.

## McCormick Projects Merger With Ben-Hur Products, Inc.

McCormick & Co., Baltimore, Md., last week announced plans for a merger with Ben-Hur Products, Inc., Los Angeles. Under the proposal, McCormick would acquire the outstanding stock of Ben-Hur in exchange for shares of its own stock.

If the proposal, which has received the approval of the boards of directors of both companies, is approved by the stockholders and also receives sanction of the Corporation Commission in California, the operations of Ben-Hur will be carried on as a division of McCormick & Co. Walter Emmerling, president of Ben-Hur, will continue as chief executive of the Ben-Hur organization in the event the merger goes through, and it is expected that he will be elected to the McCormick board.

Ben-Hur is engaged principally in the manufacturing, packing and processing of coffee, spices, flavoring extracts, tea, gelatin desserts and puddings. Its chief product is coffee. Largest portion of the firm's business is in the Pacific Coast area.

## Inland Adds Mackenzie

Inland Alkaloid Company, Tipton, Ind., has added William P. Mackenzie to its sales staff. Mr. Mackenzie recently resigned as consultant for the Food and Drug Administration to accept the sales post with Inland. He will handle the company's line of alkaloids, glycosides, botanical extracts and fine chemicals in metropolitan New York, New Jersey and Philadelphia.

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CONTENTS

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# Essential Oils, Other Aromatics

The essential oils and aromatic chemicals market showed some increase in business activity, but not to the extent that had been expected. A number of weak spots still remained, and prices for quite a few items tended to decline. The real Fall business was not yet in evidence. Price declines outweighed advances and the index moved down 1.82 point to reach 144.61.

Largest advance was made by Dalmatian sage oil. Offerings from the source have been limited and the effect has been felt on the spot market. A fair demand has been noted from meat packers and a continued firm market for this oil was expected. Spike lavender oil was raised following a firmer market at the source. Abes siberica oil was firmer. Prices for patchouli oil at the source have edged upward and the price schedules current during the week found the oil selling on spot at very little more than the replacement cost. The USP grade of eugenol was advanced by one source.

Natural Italian bergamot oil was reduced sharply by one supplier, marking the largest single drop for this oil during the year. Whether the move would be followed in other directions was not immediately known. California and Florida orange oils were reduced in the first price moves for these oils during the current consuming season. An easier inquiry plus plentiful supplies were responsible for the reductions. Export demand for orange oil held up well. Mexican lime oil was lowered by one source, a move that went counter to some indications of a firmer market at the source.

Spearmint oil continued to weaken, and was offered at the lowest prices of the year. Holders of wormseed oil in the country lowered their views, chiefly in expectation of the new production. Replacement reductions brought a lower price schedule for rue oil. Also lowered were rosemary, wormwood, dillweed and fennel oils. Both lavender and lavandin oils appeared firmer, although another month was required for the price trend in these oils to materialize.

## Price Trends

**Advanced**

Eugenol, USP, 15c. per lb.
Oil, abies siberica, 10c. per lb.
Lavender, spike, Spanish, 10c. per lb.
Sage, Dalmatian, 50c. per lb.

**Reduced**

Oil, bergamot, nat., Italian, 50c. per lb.
Camphor, white, 2c. per lb.
Cananga, native, 25c. per lb.
Cedarwood, 1c. per lb.
Dillweed, 15c. per lb.
Eucalyptus, 70-80%, 10c. per lb.
Fennel, 5c. per lb.
Lime, dist., Mex., 25c. per lb.
terpeneless, $15.50 per lb.
Orange, USP, Cal., 2c. per lb.
Florida, 7c. per lb.
Pennyroyal, 15c. per lb.
Rosemary, USP, 15c. per lb.
Rue, 20c. per lb.
Spearmint, USP, 25c. per lb.
Wormseed, 15c. per lb.
Wormwood, 15c. per lb.

**Comparative Price Indexes**

(100=1949 average)

| Last week | Prev. week | Last month | Sept. 26, 1952 |
|---|---|---|---|
| 144.61 | 146.43 | 150.65 | 170.40 |

*(For Current Prices see page 9)*

## Essential Oils

**Abies Siberica**—A 10c. per pound rise in price was encountered on the market when the earlier minimum of $2 was moved up to a higher figure. Although some dealers stated that no great demand for the oil was encountered, others reported that their stocks were moving in a satisfactory manner. Demand was expected to continue at about the same rate as in the past weeks, since the market was believed to be fairly steady.

**Anise**—No easing in the supply situation was discernible on the market, where material continued tight. Whatever supplies were to be had commanded prices from $2.25 per pound and up. Material quoted at $1.85 per pound, in drum lots, was reported to have been sold within a short period of time, and no more was offered from the same source. A gradual decline in prices was expected if the importation of oil were again permitted, as sources reported that supplies in other countries were high.

**Bergamot**—A reduction of 50c. per pound was effected by one supplier, making the largest single price drop for this oil registered during the year. The drop brought the low-of-the-range price to $10.50. The decline was said to follow a slight weakening on spot and a slightly lowered replacement price. However, the reduction was not met from other dealers, at once, and some doubt was expressed on the market as to whether such a sizeable reduction would become widespread.

**Bois de Rose**—Demand continued steady, as was considered normal for this time of the year. Manufacture of linalool from petitgrain oil has proceeded at a sizable rate, with some interest in the manufacture from this source deriving from the price differential between bois de rose oil and petitgrain oil.

**Cajeput**—Technical grade material was offered from $1.70 per pound, with a quotation of $2.10 forming the low for redistilled material. Slightly lowered replacement costs were reported as responsible for these recently effected quotations.

**Camphor**—A 2c. per pound reduction was effected when one source offered white material at 19c. Sassafrassy was steady at a low-of-the-range quotation of 25c., a price that has remained in effect throughout the year.

**Cananga**—Further reductions were encountered for this oil during the past week. An offer for native oil at $8.75 per pound was the lowest yet recorded in the current year, during which the native oil has dropped in price from $10. Lowered shipping prices were cited as the factors making the reductions possible. In addition, some offerings have been of an oil of a lower concentration of esters, it was reported.

**Cedarleaf**—Some upward revisions in prices were expected soon by trade sources, following a tightening of supplies. Currently a range of $2 and upwards was in effect.

**Cedarwood**—One source reported the oil within a range of 45c. to 60c., according to quantity, and this spread brought the minimum quotation down 1c. from the earlier low. This price lowering formed the only item of interest for this oil, as supplies were considered easily adequate for the present rate of inquiry.

**Citronella**—Formosan oil has firmed on spot, by as much as 6c. or 7c., trade sources reported. This development could be the means of strengthening prices for Ceylon oil, it was thought, if supplies of the Ceylon material available on spot proved inadequate for demand. However, any increase on spot was expected to be slight, because of the easy availability of material.

**Dillweed**—The earlier minimum quotation of $3.55 per pound was lowered 15c. from another direction. The reduction was attributed to a competitive move, and was not necessarily expected to mean an overall weakening to the market. Inquiry has held up well for this oil for use in the pickling industry, trade sources reported, and no immediate change in this situation was expected. One source stated that they were withdrawing from the market until their own production of the oil becomes available. This was expected to take two to three weeks.

**Eucalyptus**—Material of a 70-80 per cent strength was priced as low as 60c. per pound in at least one direction, and 80-90 percent material was quoted from 85c. per pound. Demand for the oil has not shown the briskness expected in some quarters, although a moderately good inquiry was reported for the account of proprietary medicine manufacturers.

**Fennel**—One former dealer reported withdrawing from the market by reason of depleted stocks of this oil, while from another source a price reduction was announced. A quotation of $2.25 per pound showed a decline of 5c. from the earlier minimum. The reduction was said to be a competitive move.

**Geranium**—Both Algerian and Bourbon oils were unchanged over the past week on spot and on shipment. The prices established in recent weeks have been lower than those prevailing earlier in the year, but as yet no substantial increases have been noted.

**Lavandin**—Material was reported fairly scarce. Prices from several suppliers were increased as a consequence, and a stronger tone was expected to prevail for some time. The source offering the price of $2 per pound maintained this quotations, pending further word from the producing areas, which was expected within another fourteen days.

**Lavender**—The crop in France has been reported as almost all gathered, and in another month the overall price pattern that will prevail for the coming months can be expected to become evident, according

*For Late Market Developments, See Page 4*

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to trade sources. Reports to date indicate that the oil will be scarcer than formerly, but how much effect this will have on prices remained to be seen. Spike lavender oil was firmer on shipment and also on spot. An earlier spot price of $1.35 was advanced to $1.45, with other quotations above this figure.

**Lemon**—Suppliers in California were reported to be delivering oil in very small quantities, which were considerably less than the market demanded. In response to this situation, prices remained very firm from a minimum of $7 up to $7.50 per pound, with differences of supplier and brand causing the range. Italian material offered very little help to this tight supply situation, as substantial quantities have been detained recently.

**Lemongrass**—Prices remained steady over the week ,with material quoted at $1 per pound from several sources. 98c. formed the minimum quotation. Untroubled markets at the primary sources enabled dealers to offer the material at unchanged prices.

**Lime**—The higher prices eported from some directions as having been encountered for Mexican oil at the source have failed to affect the situation on the spot market materially. From one source the price of distilled Mexican oil was lowered, bringing the minimum quotation to $5.25 per pound. Otherwise there was little movement among price quotations. Inquiry was reported as routine for the season. Terpeneless oil was quoted from one direction at $29.50 per pound, showing a lowering of $15.50 from the earlier minimum for this type concentrate.

**Ocotea Cymbarum**—Shipping prices were steady over the week, and the material was unchanged on spot as well. Recent fluctuations at the source have made this oil appear in a rather unsteady position. However, interest has remained good on the part of consumers in this country, it was reported, and no extensive weakness was expected.

**Orange**—The first price reductions of the Fall season were effected for both California and Florida oil during the past week. California oil, USP, was offered from one source at 78c. per pound, 2c. below an earlier minimum, establishing a range of 78c. to $1.25 depending upon brand. The same source quoted Florida oil, USP, at 68c., which was a sizeable 7c. below the earlier low-of-the-range. Reduced inquiry and plentiful supplies were cited as the factors enabling the supplier to offer the revised quotations. Other sources stated that they envisaged no immediate reductions in existing price schedules. The fact that new production is still some months away was given as one reason for a steady trend in domestic orange oil prices.

**Palmarosa**—Prices on spot maintained a comparatively small margin over latest quotations from the source. An increase in demand would be required, however, before any sizeable advance could be effected, according to trade sources.

**Patchouli**—Dealers expected a firmer market for this oil in the coming weeks, due to higher shipping prices. Currently the material was offered from $7.85 per pound and up, a minimum which the replacement costs have come close to reaching.

**Pennyroyal**—A price of $1.60 per pound was reported from one source during the past week, showing a decline of 15c. from the earlier minimum. A fairly routine inquiry was reported for this oil, with little immediate prospect for an increase, it was stated in the trade.

**Peppermint**—Prices held within their earlier range during the past week, with the oil showing a fair degree of firmness. The current minimum offer of $4.50 per pound represented a considerable decline from the prices in effect prior to the arrival of the new crop. However, no recovery to this former price level was considered immediately possible in the trade, by reason of the present ample supply status of the oil. Some increase in price was considered likely late in the year by some trade sources.

**Petitgrain**—The tone of strength noted for this oil at various times over the past weeks was apparent during the past week. A fairly good demand from soap manufacturers and other consumers has been noted, it was stated in the trade. Interest continued to center on Souh American oil raher than upon Haitian, chiefly because of the greater production and steadier availability of this material.

**Rosemary**—Spanish oil of USP specifications was lowered when one supplier offered material from 75c. per pound. This price was 5c. under the previous minimum. At the same time, the upper edge of the range was increased to $1, with the spread due to differences in quantity purchased and in individual suppliers views. Technical grade oil was unchanged, remaining available from 60c. per pound.

**Rue**—A drop in the replacement cost was the cause of a price reduction in one direction last week. An earlier minimum quotation of $2 was lowered to $1.80 per pound. The market experienced no more than the usual amount of inquiry for this oil and stocks were considered well able to fill it.

**Sage**—Offerings of Dalmatian oil at the source have been fairly scarce over the past week and the level of supply on the spot market was considered to be somewhat tight. The minimum price rose 50c. to $7.50. The next production of oil from this source was not expected until late in the winter, and trade observers

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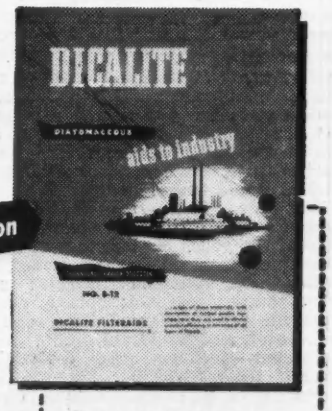


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## Colgate Sales Appointee

John L. Bricker has been promoted to assistant sales manager in the home office sales department of Colgate-Palmolive-Peet Company's toilet goods division. Mr. Bricker joined Colgate in 1949 in the syndicate sales department, For two years he was assistant to the syndicate sales manager and since 1951 has been assistant promotional and merchandising manager.

pointed out that this would be after the hog killing season. Demand for the oil from meat packers was running high, but was not quite active enough to put the oil in a critically tight position. The current trend pointed to advanced costs on spot, sources in the trade stated. Spanish oil was without feature on the market in the past week. Inquiry was described as routine and no change in the cost of the oil was expected in the coming week.

**Spearmint**—A decline of 25c. per pound was effected when the minimum price dropped to $6.05. This price was quoted for drum lots of the oil, with the same source quoting $6.10 per pound in cans. The wave of price reductions that has followed the arrival of the new crop material has produced lower prices than at any time in the year. A reversal in the trend was considered possible once some of the large consumers entered the market in earnest. Whether this upward trend would materialize depended also on the views that would be maintained in the country for the coming weeks.

**Wormseed**—15c. per pound was removed from the low-of-the-range price with an offering at $7.70. The more favorable quotations encountered on the market resulted when the holders in the country lowered their prices. The inducement to do so was reported to have been the coming distillation.

**Wormwood**—A quotation of $5.50 per pound replaced an earlier minimum of $5.65. The cause of the reduction was not immediately revealed, but it was thought to have been a competitive move.

## Aromatic Chemicals

**Citral**—The lemongrass oil derivative was offered in ample quantities on the market from a minimum of $3 per pound. Makers stated that inquiry was good, but not spectacular, and that no difficulty was experienced in filling demands.

**Eugenol**—The minimum price for USP material was raised to $2.40 per pound from an earlier figure of $2.25. This quotation was for carboy purchases. The producer making the increase cited manufacturing costs as the reason for the change.

## Fritzsche Brothers Makes Sales Staff Reassignments

Fritzsche Brothers, Inc., New York, has announced several recent changes in its sales personnel. Robert W. Montgomery has been transferred from the Philadelphia branch, where he had been stationed for eight years, to the New York headquarters. He is being replaced in Philadelphia by Robert M. Hughes.

Other new representatives include Frank J. McNamara, who will travel out of the New York office, and Parker Schwamb, who will aid the Los Angeles staff manager, Stanley Crouch. The company also reported that Fred L. Hilbert has retired after an association of thirty years with the organization.

## Chicago Cosmetic Chemists Hear Keratin Talk Oct. 6

The Chicago chapter of the Society of Cosmetic Chemists will hold its next meeting October 6 at 6:30 p.m. in Henrici's Restaurant in the Merchandise Mart, Chicago. This represents a change in date, the group previously having scheduled the meeting for the thirteenth. Speaker will be Dr. Milton Harris, director of the Harris Research Laboratories, Washington, D. C., who will discuss "Keratin Chemistry."

### Celanese Appoints Unit Sales Mgr.

Richard J. Savage has been named sales manager of the Marco products department, plastics division, Celanese Corporation of America, New York.


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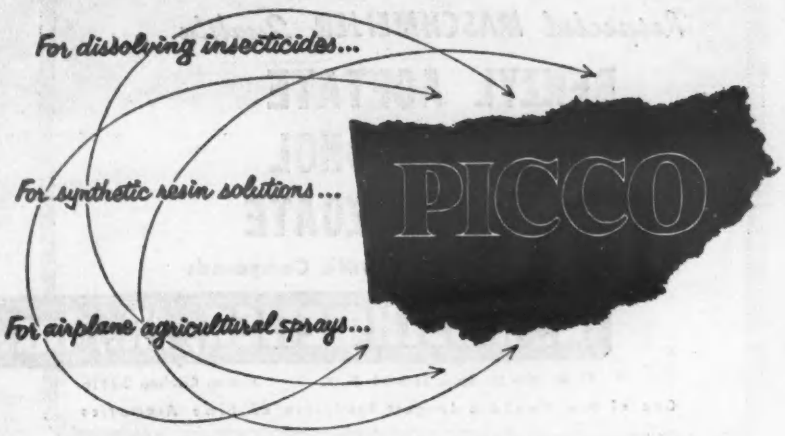


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# Protective Coatings Materials

Bleached grades of shellac rose ¼ cent per pound. Red vermillion, quicksilver declined 1 cent per pound. Otherwise, demand was thought to be relatively slack for prime pigments. Prices were unchanged during the week. Interest was said to be more active for alkyd resins, with fair inquiry for phenolics and strong interest in melamines. Most producers felt that the market was picking up after the slow season of July and August.

No further adjustments in prices of plasticizers was reported. It was not known whether other companies would fall into line with those who initiated the increases. Buying interest was considered normal by most observers. Tricresyl phosphate prices were steady during the week, with the industry drecting its main interest toward the use of TCP as a gasoline additive.

The gums market was quiet last week, after many items changed in price two weeks ago. Most sources called the general situation very firm. Further firming was expected with possible price increases in the near future. At Calcutta, shellac prices for orange grades were steadier last week. In this country, a strong market position was indicated for bleached grades. Replacement was expected to be at higher schedules.

The casein market continued close to balance in this country. Demand was slow, but counterbalanced by short supplies on spot. Sellers here worried about possible shortages as a result of the Argentine drought. Newer buying contracts were expected to be at higher prices. New Zealand material continued to move primarily to England, with not much available in this country. Quotations for domestic casein were steady and unchanged.

## Prime Pigments

**Aluminum, Paste, Powder**—Total production of aluminum paste, powder, and flake in July amounted to 2,582,000 pounds, compared with 2,894,000 pounds in June (revised), and 4,343,000 pounds in July 1952, information from the Bureau of Census relates.

A breakdown of the preceding figures shows that 709,000 pounds of atomized powder were produced in July, while June output was 1,370,000 pounds, and July 1952 production was 3,065,000 pounds. Production of flaked material in July was reported at 401,000 pounds, as against 353,000 pounds in June, and 303,000 pounds in July 1952. Aluminum paste production in July amounted to 1,472,000 pounds, while June output was 1,161,000 pounds, and July 1952 production was 975,000 pounds.

The cumulative total for the period from January through July was 25,230,000 pounds of atomized powder, flake, and paste aluminum, compared with 27,436,000 pounds put out in the corresponding months of 1952.

**Chrome Colors**—Green, yellow and orange were reported moving to normal demand. The general market position was unchanged during the week. Prices held steady on all fronts, with manufacturers able to readily supply consumers.

**Iron Blues**—The market continued featureless, with little if any significant activity reported. Prices were steady and unchanged, with demand holding at previously set levels. The industry considered supplies adequate enough to furnish immediate needs.

**Lead Pigments**—Consumer interest was said to have picked up after price changes of early last week, but there was consensus that demand had fallen off to some extent by the end of the week. The fall paint season was expected to have a stimulating effect on inquiry, however. Production was sufficient enough to satisfy requirements of buyers.

**Lithopone**—Prices were holding steady last week. Moderate demand characterized trade. According to the industry consumers had no trouble in getting all they needed.

**Red, Vermilion, Quicksilver**—Prices decreased 1c. per pound following a drop in mercury prices.

**Titanium Dioxide**—It was felt that recent price increases had taken some of the edge off demand. Present inquiry was judged to be light. Sellers did not change prices during the week, and the opinion was that present schedules would hold unless there were a drastic falling-off in consumption.

**Zinc Oxide**—Demand was thought to be at a lower level during September. One source felt that buying interest had fallen off considerably after the recent price change in metal. However, there was no anticipation of price changes in the immediate future. Supplies were thought adequate enough to satisfy present inquiry.

### *Price Trends*

**Advanced**

Shellac, bleached, bonedry, 4c. per lb. refined, 4c. per lb.

**Reduced**

Red, vermilion, quicksilver, 1c. per lb.

**Comparative Price Indexes**

(100=1949 average)

| Last week | Prev. week | Last month | Sept. 26, 1952 |
|---|---|---|---|
| 90.22 | 90.22 | 90.22 | 88.44 |

*(For Current Prices see page 9)*

### *Protective Coatings Shipments*

The following table from the Bureau of Census indicates total factory shipments of paints, varnish, and lacquer in July compared with June:—

| | July | *June |
|---|---|---|
| Trade sales of paint, varnish and lacquer | $76,153,000 | $82,305,000 |
| Industrial sales varnish | 48,551,000 | 50,970,000 |
| Paint and varnish | 36,971,000 | 38,537,000 |
| Lacquer | 11,580,000 | 12,433,000 |
| Total sales | $124,704,000 | $133,275,000 |
| Calendar total, 1953— January-June | $853,534,000 | |

*Revised

## Synthetic Resins

**Alkyds** — Demand was sustained at a relatively good level for pure and modified resins in this group. One source stated that interest has picked up a bit during the past few weeks. Some sources have been running a bit behind on deliveries. One producer added that it was not running quite as far behind as it had been several weeks ago. Production has been coming up to meet the volume of orders. The general level of activity for alkyds was expected to be satisfactory in the coming weeks, especially with the fall paint season ahead. Prices were steady at previous schedules.

**Melamines**—A strong, sustained demand has kept this market in short supply. Present production capacity is not able to keep up with the need. Producers did say, however, that supplies were not quite as tight as they had been earlier. A large producer has been closed down since the beginning of April, due to a labor walkout. Further, the plant was out of production through the peak of the season. Price schedules were unchanged from previous levels.

**Phenolics** — No particular changes in this market. Some producers said that activity has picked up as anticipated during the first weeks of September. Other sources reported a rather uniform level of business. Buying did not fall off too much in August, the latter sources added. Whatever the demand picture presented by various producers last month, most felt that September business was nominally good. Supplies were sufficient to handle current consumer needs. Prices were unchanged.

**Polyethylene**—The market for this material was still extremely short. A source said that one of three plants which are to be built was already putting out a sizable quantity of polyethylene. It was felt that this output will go a long way towards easing the tight supply.

**Urea-formaldehydes**—A producer reiterated that supplies of these resins were still short of the call, but not as short as they had been several weeks back. Demand continued quite strong. The short supply situation soon developed after a large producer was kept out of production by a labor dispute which began in early April. Other producers have run their plants at capacity rates ever since, trying to catch up with the volume of orders. Prices held firm to old listings.

## Lacquer Materials

**Dibutyl Phthalate**—Although some firms had changed differentials at the beginning of last week, it appeared that the move was not immediately followed by other companies. It was not known when the industry in general would rearrange prices. Most observers reported slow demand over the week.

**Dicapryl Phthalate**—The industry was still split regarding adjustment of prices for carlots and less carlots. Demand was average.

**Di-iso-butyl Phthalate**—Recent price

*For Late Market Developments, See Page 4*

revisions which allowed for higher costs of drum packaging had little noticeable effect on demand during the week, according to the industry. Adequate supplies were moving to steady consumption.

**Di-so-octyl Phthalate**—Demand was said to be fair, with a generally dull market. Listings remained the same during the week. Output satisfied consumer needs.

**Dioctyl Phthalate**—No price changes were effected last week. Demand was said to be picking up after the seasonally slow period of July and August. Some stirring was caused by differential adjustments in other plasticizers two weeks ago, but most sources felt that there would be no immediate change in listings.

**Tricresyl Phosphate**—Prices were unchanged last week. TCP for use in automotive and aviation gasoline was expected t substantially broaden sales possibilities. Sufficient supplies were available to consumers.

## Natural Resins

The gum market was quieter after the flurry of price changes which took place two weeks ago. East India Batu dammar was in short supply. No. 1 Singapore was very firm. Foreign markets were reported very active, with a high rate of inquiry. It was pointed out that with the present situation, prices would become even firmer. There was no indication of a possible decline during the week. Most sources felt that if further adjustments were made, they would be upward.

**Shellac**—Bleached bonedry and refined grades rose 4c. per pound across the board last week. Current prices were:—Bonedry, bags, 47c. per pound; barrels, 48c. per pound, and kegs, 50c. per pound; refined, bags, 57c. per pound, barrels, 58c. per pound, and kegs, 60c. per pound, all in 1,500 pound lots. Higher quotations were thought necessary due to increases in replacement price. Orange grades in this country were steady. Calcutta prices were judged more stable during the week.

## Miscellaneous Materials

**Casein**—Demand was said to be slow in the United States, but shortage of supply on spot caused a condition of firmness in the market. Inquiry was low due to the fact that consuming mills here were holding back after having bought excess amounts when prices were substantially lower five or six weeks ago. Supplies were short as the drought in Argentina continued. Higher prices in the Argentine were expected, due to scarcity of replacement. There was as yet no indication concerning the seriousness of the dry spell. Marketers here felt that results would be known when production got under way in October and November. New Zealand material was still largely under commitment to England, with not too much available for use in this country.

## Naval Stores

**Rosin**—Total output of gum and wood rosin in August was reported as 157,970 520-lb. drums by the Bureau of Agricul-


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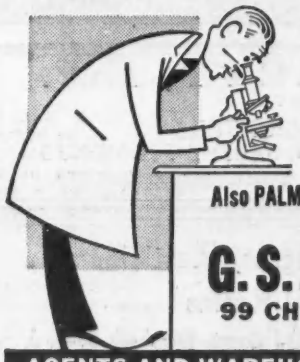

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tural Economics. In comparison, July production was 160,300 drums, and 153,730 drums were produced in August of last year.

The running total for the April 1 to August 31 period was 768,910 drums, compared with 790,900 drums put out in the similar period of last season.

**Rosin, Gum**

(USDA, per 100 lbs.)

| | Fri. | Mon. | Tues. | Wed. | Thur. |
|---|---|---|---|---|---|
| Drums— | | | | | |
| G | ... | ... | ... | ... | $7.58 |
| H | ... | ... | ... | ... | 7.58 |
| I | ... | ... | ... | ... | 7.58 |
| K | $7.55 | ... | ... | ... | ... |
| M | ... | $7.60 | ... | $7.51§ | ... |
| N | ... | 7.595§ | ... | 7.58§ | 7.60 |
| WG | ... | ... | $7.70 | ... | 7.70 |
| WW | 7.71 | 7.765§ | 7.78§ | 7.755§ | 7.755§ |
| Bags— | | | | | |
| H | 7.40 | ... | ... | ... | ... |
| K | 7.40 | ... | ... | ... | 7.60 |
| N | 7.46 | ... | ... | 7.45 | ... |
| WG | ... | ... | 7.53 | 7.53§ | ... |
| WW | 7.55 | ... | 7.60 | 7.55 | ... |

Tankcars (for week ended September 18)—N $7.15-$7.25, WW $7.32; 2,039*.

Sales, USDA

1,059* 900* 378* 498* 751*

New York
(per 100 lbs., c.l., Friday)

B through N $8.50, WG $8.70, WW $8.75

**Turpentine, Gum**

(USDA, per gal., 7.2 lbs.)

| | | | | | |
|---|---|---|---|---|---|
| Price | ... | .509† | .515† | .511½§ | ... |
| Sales | ... | 14,000¶ | 16,000¶ | 18,000¶ | ... |

New York, Friday, per gal. 7 lbs., tankcars, 53½c., l.c.l. 70c.

*Drums equivalent. †Tankcars. ¶Gallons. §Average price.

## Paint Courses Offered By College, Associations

Newark (N. J.) College of Engineering, in cooperation with the New York Paint, Varnish and Lacquer Association and the New York Paint and Varnish Production Club, has started laboratory courses in basic coatings and lacquer coatings.

The courses, which will run until December 16, will feature instruction in modern methods of preparation, analysis, and chemical and physical testing of a wide range of raw materials and finished products, and the determination of vehicle, pigment and plasticizer relationships. Laboratory equipment will also provide ample facilities for experimental and pilot plant operation.

Instructors are:—Edward E. Raswyck, Reichhold Chemicals, Inc.; Bernard J. Godfrey, E. I. duPont de Nemours & Co.; Oakley H. Garlick, Paul O. Abbe, Inc.; George C. Hull, Anglo-American Varnish Company; E. Harold Shakespeare, Titanine, Inc.; Robert D. Ullrich, Charles L. Jones, and Robert R. Stover, Hercules Powder Company; William H. Graeff, Rohm & Haas Company, and Charles T. Droman, Bakelite Corporation. Each course meets one night a week in the college's Mullaly memorial coatings laboratory under the supervision of Frederick W. Bauder, associate professor in chemistry.

## Naugatuck Post to Imholz

William C. Imholz has been named to head the west coast plastics technical service group of the Naugatuck chemical division of United Sates Rubber Company.

Mr. Imholz has been with Naugatuck since he joined its production department in 1944. The following year he was assigned to plastics research. Prior to his new assignment, he was senior group leaded in plastics evaluation and development. Mr. Imholz will make his headquarters at the Los Angeles office, 5901 Anaheim-Telegraph road.

## *Tetracycline Discovered*

—*Continued from page 4*

ducted independently of the Pfizer studies, were Dr. J. H. Williams, director of chemical research, and four colleagues, Dr. James H. Boothe, jr., J. Morton, 2nd, J. P. Petisi and R. G. Wilkinson.

Both "Terramycin" and "Aureomycin" have tetracycline as the fundamental part of their chemical structures "Aureomycin," known generally as chlorotetracycline, is a chlorine-containing relative of tetracycline. On the other hand, "Terramycin," whose generic name is oxytetracycline, contains an atom of oxygen in a specific part of its molecule.

The Pfizer researchers made the new antibiotic by eliminating the atom of chlorine from the chlorotetracycline molecule and replacing it with an atom of hydrogen. This was accomplished by treating chlorotetracycline with hydrogen gas in the presence of a palladium-carbon catalyst, an agent which speeds the conversion. The resulting product was then further purified, yielding crystals of tetracycline.

The Lederle process for making the antibiotic is similar. ""Tetracycline is a potent antibiotic having an antibiotic spectrum very similar to chlorotetracycline," reported the Lederle scientists. "The former compound exhibits increased stability in neutral or alkaline solution." The Pfizer group also indicated that tetracycline is quite stable in an alkaline solution.

Announcement of the development was made in the *Journal of the American Chemical Society* in two separate papers, one by the Pfizer research team and another by the Lederle group.

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## Irvington Varnish Makes Gavin a Vice-President

Roy J. Gavin has been elected a vice-president of the Irvington Varnish & Insulator Division of Minnesota Mining & Manufacturing Company. Mr. Gavin will assume his new duties immediately and will move his headquarters from St. Paul, Minn., to the division's home offices at Irvington, N. J.

Mr. Gavin joined 3M's sales force in 1944. For the past five years he had been sales manager of the sound recording tape division. The Irvington Varnish & Insulator Division, formerly Irvington Varnish & Insulator Company, became a part of the 3M organization last month.

### Binney & Smith Moving in October

Allan F. Kitchel, president, has announced that sometime during the latter part of October, Binney & Smith Company will move to its new headquarters at 380 Madison avenue, at 46th street, New York The timing of the move is contingent on completion of the office building which will house all of Binney & Smith's New York activities. The telephone number and post office zone number will remain the same.

## USDA Names Golumbic To Naval Stores Station

Dr. Calvin Golumbic, formerly with Bureau of Mines, has been appointed chemist in charge of the fundamental research section of the naval stores station at Olustee, Fla. The station is a unit of the Department of Agriculture's Bureau of Agricultural and Industrial Chemistry.

Dr. Golumbic will be responsible for basic studies on the composition and properties of the constituents of pine gum, turpentine and rosin, and on the development of methods for their detection, isolation and separation. Dr. Golumbic was previously a member of the Bureau of Mines synthetic fuels branch at Pittsburgh, Pa., where he was group leader in the investigation of synthetic fuels and coal.

## Concord Picks Calif. Agent

Concord Chemical Company, Moorestown, N. J., has appointed William C. Loughlin & Co., 311 California street, San Francisco, sole representatives for its line of industrial waxes and cresylic acid in the state of California. Among the waxes Loughlin will handle are a series of Concord carnauba replacements which have been tailored for specific industrial uses. The San Francisco concern will also handle imported cresylic acid in the territory for Concord.

## Solvent Offered in Tanks

American Monomer Corporation, Leominster, Mass., has announced that "Methmac," its low-cost, high-ester solvent, is now available in tankcar lots. The solvent is a blend of methyl acetate and methanol. The specifications for the solvent blend are:—Weight per gallon, 7.4 pounds; methyl acetate content, 60 percent by weight minimum, balance methanol, and boiling range, 55-60 degrees centigrade.


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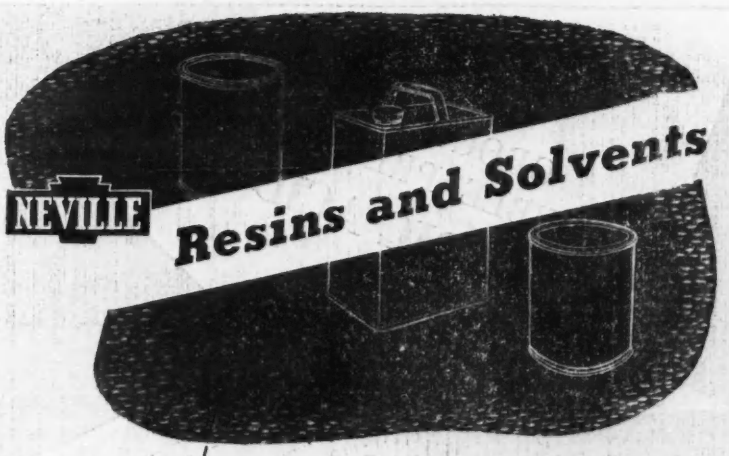


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# Oils, Fats and Waxes

Feature of the oils and fats market last week was the early strength of soybean oil which advanced ½ cent per pound, which was not sustained, the market closing unchanged for the period. Before reaction set in, trading was quite active for nearby delivery at the higher levels. Crude cottonseed oil was quiet and slightly lower as the bulk of new crop cottonseed products continued to move to the government under the support program. Peanut oil continued scarce and light sales were reported at an advance of ¾ cents per pound for immediate delivery. Corn oil was quiet and off slightly.

Copra was stronger due to active demand for European account, advancing $10 per ton. This was reflected in coconut oil, the market moving up sharply.

Firmness of flaxseed served to stiffen the linseed oil market and prices were slightly higher. Trading, was still limited to actual needs while consumer inquiry for later requirements was reported slow. Tung oil continued weak and market was off fractionally. Business was light at the lower levels. Oiticica oil also was easier and quotations lower. Dehydrated castor oil was unchanged and steady at the recent reduction of 1 cent per pound. Refined fish oils were firm at the recent advance, reflecting the high cost of crude menhaden.

Tallow and greases declined fractionally, which improved trading for domestic delivery. Soapers took moderate quantities at the lower levels. While industrial grades of grease declined, all hog fat white grease was strong and in limited supply. Oleo oil and stearine continued scarce and commanded premiums for export. With production of oleo oil and stearine sold well ahead, offerings were scanty and quotations merely nominal and higher.

Increased cost of coconut oil resulted in a fractional advance for palm kernel oil. Safflower oil also was firmer, advancing ½ cent per pound.

While consuming demand for carnauba wax continued slow, the market was quotably unchanged and generally steady for all grades. Stocks on spot were closely held and prices were still below the cost of replacements from Brazil. Ouricury wax also remained firm at former levels.

## Vegetable Oils

**Castor Dehydrated**—Buying interest was reported fair, chiefly for prompt delivery. Prices were unchanged and maintained at the recent decline.

**Coconut**—Crude oil was stronger, with higher cost of copra. Crude oil was advanced to 15½c. per pound, tankcars, f.o.b. Pacific coast, September shipment following sales at 15c. Offerings were light. Straight October shipment was lifted to 14⅝c., tankcars, same basis. Market at New York also was firmer and tankcars were raised to 16⅜c. per pound, prompt delivery. Threat of a dock strike also was a strengthening factor.

**Copra**—Increased demand for European account stiffened this market and prices advanced $10 to $197.50 per ton, c.i.f. Pacific coast, for prompt shipment.

**Corn**—Market was quiet and slightly easier. Light sales of crude were noted at 14c. per pound, tankcars, f.o.b. mills. Refined oil was quoted at 17⅛c. per pound, tankcars, New York delivery.

**Cottonseed**—Bleachable cottonseed oil futures became unsettled as a result of the report that the government will query free world nations shortly on proposed plans to sell $250,000,000 government owned farm surpluses including cottonseed oil, dairy products, corn and wheat in foreign markets. Officials declined to name countries involved; but it is believed that the bulk will go to western Europe. The action would be the first under legislation approved by Congress at the last session. Its aim is to help the government to get rid of some of its surplus farm products. This was construed as bearish and the market declined moderately. Trading in futures was light and the market was irregular. Increased movement of cottonseed products to the government under the support program had little influence. Consuming inquiry for refined cottonseed oil was slow and tankcars were offered at 16⅜c. per pound, New York, prompt delivery. Lard was erratic, declining sharply, then rallied under improved domestic demand, and practically regained early losses. Crude cottonseed oil was slightly lower. Light sales were noted at 13c. per pound, tankcars, f.o.b. mill, Southeast and Valley at 12¾c., Texas.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended September 25 follow:—

| | Sales | Cents per pound High | Low | Close |
|---|---|---|---|---|
| October | 41 | 15.55 | 15.10 | 15.16@15.18 |
| December | 55 | 15.10 | 14.84 | 14.87@14.90 |
| March | 27 | 14.90 | 14.74 | 14.74@14.77 |
| May | 20 | 14.70 | 14.62 | 14.60@14.63 |
| July | 5 | 14.65 | 14.65 | 14.40@14.50 |

Total sales, 148 contracts.

*Memphis.*—Light trading in crude cottonseed oil. Tankers quoted nominally at 12⅞c. per pound, f.o.b. mills. Crude soybean oil sales reported at 11⅞c. per pound, tankcars, Decatur, September delivery. Demand for protein meals steady at prices slightly above government support schedule. Southern mills not yet processing soybeans. Active demand for cottonseed hulls. Stocks scarce for nearby shipment. Hulls quoted at $14 per ton, bulk, Memphis and $12, Mississippi points.

**Linseed**—This market was irregular as a result of sharp fluctuations of flaxseed prices, but was steadier advancing slightly late in the period. Raw oil was lifted 1/10c. to 15.8c. per pound, tankcars and 16c. warehouse basis, f.o.b. Minneapolis. Rapid price changes during the week kept consumers on the sidelines. Deliveries of oil, however, continued to move in steady volume against former contracts.

*Minneapolis.*—Raw linseed oil costs continued to fluctuate with the ups and downs of the flaxseed market last week. Early in the week, oil was quoted for last quarter of this year at 15.4c. a pound, tankcars, f.o.b., Minneapolis. By midweek and late in the week the price advanced to a firm 15.8c. a pound for nearby. Warehouse basing price was two-tenths of a cent a pound higher. A few large users, near exhaustion of balances, stepped in for nearby coverage prior to the price rise but rank and file of the trade held to a hand-to-mouth buying policy. Much of business was price-date-of-shipment. Shipping directions were about steady with the prevous week and much lighter than a year ago.

Shipments of linseed oil, in pounds, were as follows:—

| | 1953-54 | 1952-53 |
|---|---|---|
| Past week | 7,560,000 | 10,140,000 |
| Since Sept. 1 | 24,180,000 | 30,120,000 |

**Flaxseed**—Seed receipts were heavy and trading improved for spot delivery and to arrive. Market was firm.

*Minneapolis.*—Flaxseed poured into the Minneapolis market in good volume last week, some of it for spot cash sale and the balance for delivery on to-arrive contracts or for CCC account. Receipts for the week totaled 890 cars, compared with 590 in the preceding week and 779 cars in the same week last year. Actual spot cash purchases amounted to 52 cars and 6,000 bushels in trucklots. To-arrive bookings were heavy, totaling 51 cars and almost a quarter million bushels out of storage or from country points. Crushers were aggressive buyers, pushing cash premiums to 7c. a bushel over the December option for No. 1 seed. Some flaxseed moved around $3.85 a bushel at the week's start but late in the week prices advanced to $3.92, delivered Minneapolis. Shipments of flaxseed totaled 89 cars as against 77 cars the previous week and 75 cars a year ago.

Receipts and shipments of flaxseed, in bushels, were as follows:—

| | Receipts 1953-54 | Receipts 1952-53 | Shipments 1953-54 | Shipments 1952-53 |
|---|---|---|---|---|
| Past week | 1,147,500 | 1,324,300 | 122,500 | 127,500 |
| Since Sept. 1 | 3,976,250 | 4,116,900 | 297,500 | 385,900 |

**Oiticica**—Quiet demand and liberal offerings continued to unsettle the market, and quotations were off at least ¼c. Tankcars were offered at 19¾c. per pound, New York for nearby and 19½c. forward delivery. Drums were also lower ranging from 21¼c. to 21½c. per pound, drums, as to quantity.

**Olive**—Consumers continued to pur-

For Late Market Developments, See Page 4.

## Price Trends

**Advanced**

Acid, linseed, 1/10c. per lb.
Copra, $10 per ton.
Oil, coconut, crude, Pac. coast, ⅞c. per lb.
N. Y., ⅝c. per lb.
Linseed, 1/10c. per lb.
Oleo, 1c per lb.
Palm kernel, ¼c. per lb.
Peanut, crude, ¾c. per lb.
ref., ¾c. per lb.
Safflower, ½c. per lb.
Oleostearine, ¼c. per lb
Soybean meal, $1.50 per ton.

**Reduced**

Greases, ¼c. per lb.
Lard, 1/10c. per lb.
Oil, corn, crude, ½c. per lb.
ref., ½c. per lb.
Cottonseed, crude, ½c. per lb.
ref., ½c. per lb.
Oiticica, ¼c. per lb.
Tung ¾c. per lb
Tallow, ⅛c. to ¼c. per lb.

**Comparative Price Indexes**

(100=1949 average)

| Last week | Prev. week | Last month | Sept. 26, 1952 |
|---|---|---|---|
| 92.68 | 92.67 | 91.34 | 109.30 |

(For Current Prices see page 9)

chase limited quantities for immediate needs. Edible oil was sold at $2.55 to $2.65 per gallon, drums, duty paid, on spot, depending upon quantity.

**Palm**—Demand was confined to actual needs. Market was unchanged and steady. Drums were held at 12¼c. to 12¾c. per pound, spot according to quantity.

**Palm Kernel**—Higher cost of coconut oil strengthened this market. Tankcars were advanced to 14¾c. per pound, in bond, New York.

**Peanut**—Scarcity of supplies continued to keep this market in a strong position. Crude oil was advanced fractionally, with trading at 23c. per pound, tankcars, f.o.b. mills, for immediate delivery. First half October was quoted at 21½c., same basis. The government sold peanuts last week to make 16 tankers of oil. Refined oil was higher and nominal at 26¾c. per pound, tankcars, New York, basis. CCC reportedly sold 15,000 tons of 1951-crop peanuts of the Virginia type solely for export at about 9c. per pound, f.o.b. Norfolk.

**Rapeseed**—Consuming inquiry was reported slow. Refined oil was unchanged at 17c. per pound, tankcars, New York, nearby delivery and 16¼c. for futures.

**Safflower**—This market was firmer and up fractionally. Tankcars were raised to 15c. per pound, Atlantic coast, prompt delivery.

**Soybean**—Crude oil fluctuated sharply last week and early gains were not sustained the market closing at former levels. September sold down to 11¾c. per pound, tankcars, Decatur, after reaching 12⅜c.; October to 11¼c. and November-December to 10¾c., same basis. Refined salad oil was quoted at 14½c. per pound, tankcars, New York basis.

The Commodity Exchange Commission proposes to raise the limit on daily speculative trading in soybean futures from 1,000,000 to 2,000,000 bushels, the limit now in effect on wheat, corn and oats, it was announced by the Agriculture Department. Limits do not apply to bona fide transactions.

Sales and prices of prime soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended September 25 follow:—

| | Sales | Cents per pound—High | Low | Close |
|---|---|---|---|---|
| September | 12 | 12.25 | 12.00 | Expired |
| October | 18 | 11.60 | 11.08 | 11.02@11.08 |
| December | 34 | 11.07 | 10.77 | 10.77S |
| March | 18 | 10.90 | 10.67 | 10.68@10.70 |
| May | 12 | 10.80 | 10.62 | 10.54@10.60 |

Total sales, 94 contracts.

**Tung**—Increased offerings and slow demand continued to unsettle this market. Trading was light and restricted to nearby delivery. Sales were reported at 26¼c. per pound, tankcars, New York, nearby on firm bids and up to 26½c. asked. Futures were offered at 26c., same basis. Domestic oil was inactive and merely nominal at 26¾c. per pound, tankcars, f.o.b. southern mills. Drums were lower at 28c. to 29c. per pound, New York, depending upon quantity.

## Fats and Greases

**Greases**—Trading was fairly active at lower prices. All grades dropped ¼c. per pound, except choice white which continued scarce and all hog fat was entirely nominal at 7½c. per pound, tankcars, delivered. Domestic buyers absorbed fair sized quantities of the lower grades at the decline. Export business was spotty, primarily for all hog fat white grease. Yellow grease was sold at 3⅝c. per pound, delivered. House was quoted at 3⅜c. and brown, 2⅝c. per pound, same basis.

**Lard**—This market fluctuated sharply but closed firm regaining early declines. Cash lard was quoted 16¾c. per pound, drums, Chicago.

**Oleo Oil**—Tight supply condition kept this market strong. Prices were higher and entirely nominal around 19c. per pound, drums, and depend upon quantity, seller and buyer. Most of the trading was for export delivery. The same conditions prevailed in oleo stearine, which also was nominal at 13c. per pound, barrels.

**Tallow**—Lower prices brought out increased consuming inquiry and soapers and smaller buyers absorbed moderate lots at the lower levels. Prices were off ½c. per pound. Trading took place in fancy bleachable at 5c. and extra at 4¾c. per pound, tankcars, delivered. Special was moved at 4½c. and No. 1, 3⅜c. per pound, same basis.

## Fish Oils

**Cod**—This market remained steady, despite limited buying interest. Some business was reported for prompt shipment at 8⅜c. per pound exdock, drums, New York, with producers holding for ¼c. more. On spot, light trading was noted at 9½c. to 10c. per pound, drums, as to quantity.

**Refined Fish**—Trading was reported fairly active for immediate requirements. Withdrawals against contracts moved in good volume. Market was steady at the recent advance. Light pressed oil was


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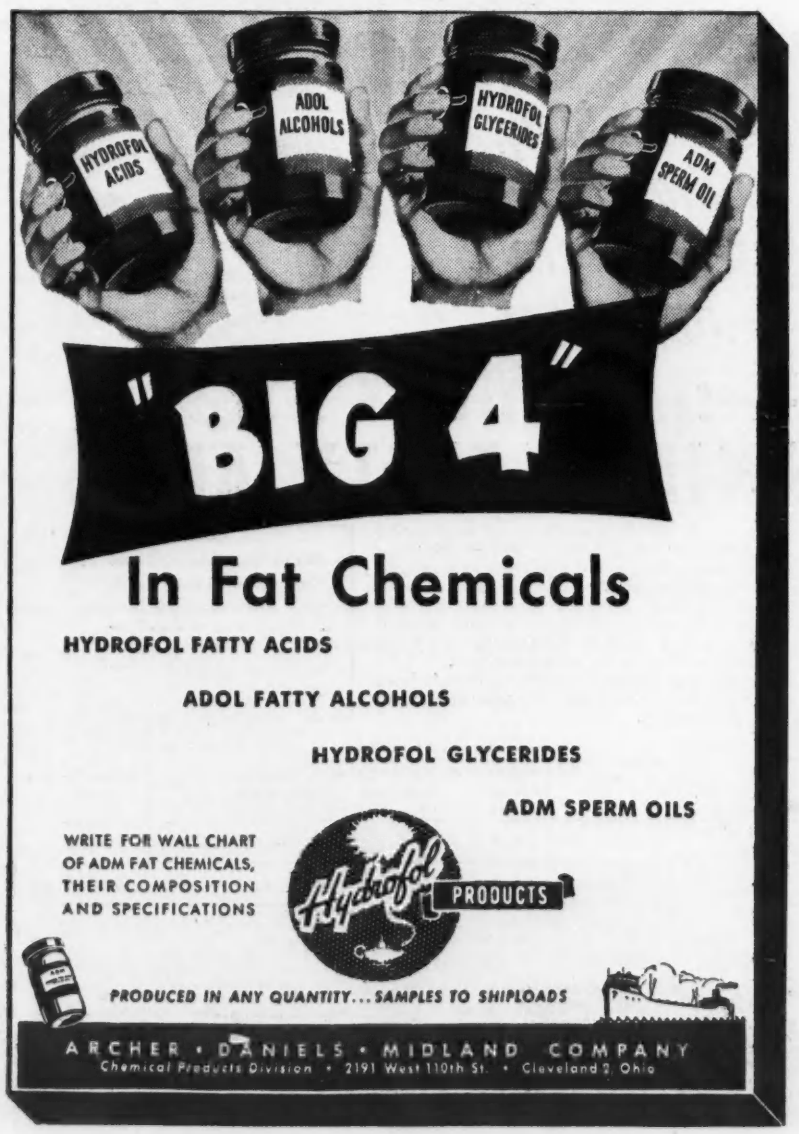
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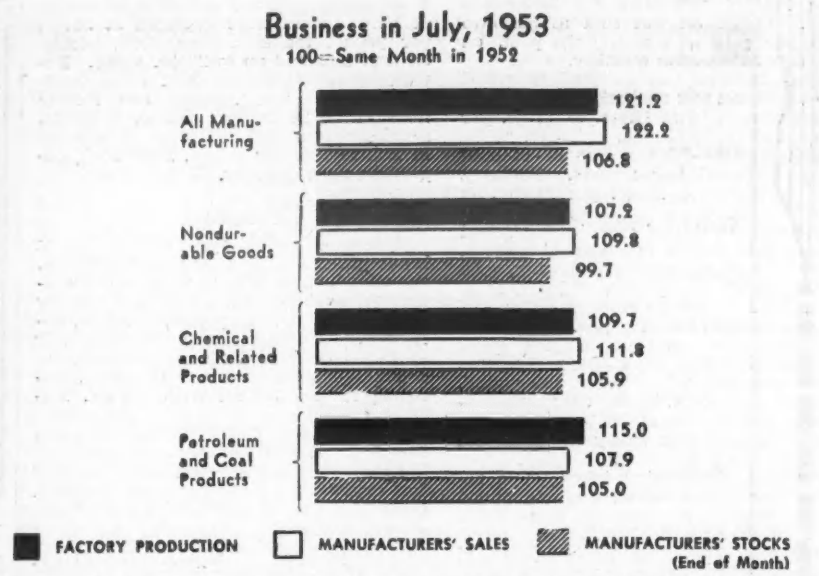


held at 11c. per pound, tankcars, New York basis. Crude menhaden oil was maintained at 7c. per pound, tankcars, f.o.b. Atlantic and Gulf coasts. Export inquiry was reported light with best bids below current quotations.

During July, 1953, the production of fish oils, exclusive of liver oils, in the United States and Alaska amounted to 4,129,104 gallons compared with 3,035,310 gallons during the corresponding month of 1952. This was an increase of 1,093,794 gallons compared with July, 1952. A marked increase in the production of menhaden oils was mainly responsible for the greater production during July. Alaska herring and tuna and mackerel oils recorded noticeable increases during July, compared with the same month last year.

Production of crude menhaden oil totaled 3,567,060 gallons in July, compared with 2,391,980 gallons in July last year. Total output for the seven months ending July amounted to 7,655,070 gallons, against 6,451,340 gallons during the same period in 1952. Sardine oil production totaled only 80 gallons during the first seven months of 1953, compared with 3,126 gallons during the same time a year ago.

*Los Angeles.*—The supply of crude tuna oil continued light, with the market generally dull and featureless. Quotations were nominal at 4¾c. per pound, f.o.b. San Pedro. Buying interest continued dormant for offerings of Canadian herring oil at 7¼c. per pound, f.o.b. Vancouver. The Southern California pilchard season opens October 1 with the trade pessimistic over any improvement of the 3,600 tons landed last season, some one-tenth of the 1950 receipts.

## Fatty Acids

Consumer demand was more active and a fair volume of business was reported for immediate and up to 30-day requirements. Animal fatty acids were quotably unchanged and well held. Vegetable acids also moved in better volume and were maintained at prevailing quotations.

## Cake and Meal

**Cottonseed Meal**—Buying interest in cottonseed meal continued steady although buyers were still only covering nearby requirements. Oil mills on the other hand, are not anxious sellers except when they have free meal available, since the price of oil will determine whether they will tender their products to the government or sell to private sources. Meal 41 percent was offered at $60 per ton sacked in North Carolina; $59 in South Carolina and Georgia; $58 in Alabama, Mississippi, Tennessee points, immediate and October shipment. Thirty-six percent was quoted at $5 per ton less.

**Linseed Meal**—Market remained steady at unchanged prices. Offers of meal light for forward delivery due to the uncertainty of flaxseed prices. Moderate trading for nearby delivery.

*Minneapolis.*—There was active inquiry for linseed meal but not much was being offered for forward needs by crushers in view of the uncertain price picture on flaxseed and oil. Crushers quoted extracted linseed meal for prompt delivery at around $60 a ton, bulk, in carlots, f.o.b., Minneapolis. Some sizeable lots were said to have moved at $1.50 to $2 a ton lower. Expeller meal was priced at $64 a ton, bulk, Minneapolis. Shipments continued good as users were low on contracts and much of the business was for nearby—ordered and shipped right out.

Shipments of linseed meal, in pounds, were as follows:—

| | 1953-54 | 1952-53 |
|---|---|---|
| Past week | 13,260,000 | 13,260,000 |
| Since Sept. 1 | 38,100,000 | 44,200,000 |

**Peanut Feed Meal**—Supply of peanut feed meal continued small although demand also was light. Forty-five percent solvent was available at $62.50 per ton sacked f.o.b. South Alabama, September-October shipment and old process at $72 per ton sacked f.o.b. shipping points September and first half October shipment in limited quantities.

**Soybean Meal**—Most buyers are waiting to see what effect the heavy movement of soybeans will have on the market. Slightly stronger bean prices has caused a little higher asking prices for meal but buyers are still reluctant to buy except for immediate requirements. Forty-four percent meal was advanced to $59 per ton bulk Decatur prompt; and $60 for futures.

## Waxes

**Beeswax**—Consumers absorbed moderate quantities of refined grades for prompt delivery. Crude grades were quiet and well held at former levels. African crude remained steady at 47c. to 48c. per pound, spot as to quantity.

**Carnauba** — Consuming demand continued restricted to actual requirements. The tone of the market remained steady, despite light trading. Limited stocks of all grades on spot were available at former levels. N.C. No. 3, crude ranged from $1.02 to $1.04 per pound; refined at $1.05 to $1.07, and No. 1 yellow at $1.30 to $1.32, according to quantity. In some quarters it was intimated firm bids for tonnage quantities could slightly shade asking prices.

**Japan**—Firmer tone featured this market due to floods in Japan which caused considerable damage in the wax berry growing area. Prices were firm at the recent advance ranging from 22c. to 23c. per pound, spot as to quantity.

**Ouricury** — While demand was spotty, the market remained unchanged and firm. Light stocks of refined on spot was well held at 80c. to 82c. per pound, depending upon quantity.

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ROLLER MILLS: 4—J. H. Day High Speed, 14" x 30", 3-roll, water cooled, type B, roller bearings.

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ROTARY KILNS AND DRYERS: 1—7'6" x 125' Rotary Kiln; 1—8' x 135' Allis Chalmers; 1—Vulcan 7' x 120'; 2—Vulcan 8' x 120'.

1—6'6" I.D. x 12' Rotary Nodulizer or Furnace, ⅝" shell, Timken roller bearing rolls, gear reducer and motor drive, scraper conveyor, feeder, etc.

2—3'x50' Rotary Direct Heat Dryers or Coolers.

4—Ruggles-Coles Direct Heat Rotary Dryers—Class XF4—54" x 25', one Class XF 5' x 40'. Also three 3' x 50'; 5' x 30'; 5' x 50'; 6' x 40'; 6' x 60'; 7' x 70'.

2—Link Belt Roto-Louvre Dryers: #207-10 (2'7"x10'), #310-16.

2—6' x 50' Louisville Rotary Steam Tube Dryers.

PEBBLE MILLS: 8—Lined, 5' dia. x 4'; 1—5' x 6'; 6' x 8', 800 gals. each; many smaller sizes.

VACUUM SHELF DRYERS: 4—Devine #28, each 20 shelves, 59"x78", each with condenser & pump.

NICKEL KETTLE: 1—300 gal. jack. closed, with condenser & pump.

ATMOSPHERIC DOUBLE DRUM DRYERS: 4—Buflovac 42" x 120", 42" x 90", 32" x 90", 32" x 72", complete stainless steel accessories; 1—American 36" x 120", complete stainless steel accessories.

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2—500 gal. s/s Tanks.
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2—Raymond Screen Mills, #OA with monel hammers, also #OO.
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5—Simpson #O Intensive Mixers.
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4—Sweetland Filters, #12, 10 and 7.
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3—Sharples P16 Monel and Stainless Steel, Pressurtite Super Centrifuges.
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1—Buflovak, Type VRC, Stainless Steel single effect Evaporator, 94 sq. ft.
3—Eimco 3'x1' totally enclosed, Rotary Vacuum Filters, 316 Stainless Steel.
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2—Chicago Pneumatic 14"x7" Vacuum Pumps.
1—Thropp 18"x50" 2 Roll Mill, motor driven with 75 HP slip-ring motor.
1—#12 Sweetland Filter with 36 Stainless Steel covered leaves.
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40—Stainless Steel Tanks—15, 30, 60, 100, 150, 200, 260, 300, 500, 1,000, 3,000, 5,700, 16,000 gal.

30—Aluminum Tanks, closed, 4, 275, 330, 480, 500, 1,350, 1,450 and 9,000 gal.

30—Stainless Steel and Stainless Clad Steam Jacketed Kettles—40, 60, 80, 100, 150, 200, 500 gal.

2—450 gal. St. St. Jktd. Agit. closed Processing Kettles.

3—13 gal. Stainless Steel (T347) Jacketed Autoclaves or Pressure Vessels, 700# int. pr., 50# jkt. pr.

1—Stainless Steel Pressure Vessel, 600# WP, T304, 18" dia. x 9'4" L. (86 gal.).

4—Aluminum Reaction Kettles, Jktd. and Agit., 35, 60, 100 & 250 gal.

3—Stainless Steel Packed Columns, 8", 12" and 24" dia.

3—Aluminum Bubble Cap Columns.

8—Stainless Steel Heat Exchanges, 400, 368, 160, 70, 55, 40 and 14 sq. ft.

1—Ball & Jewell #1½ Rotary Cutter, stainless steel. 30 HP Motor.

5—Mikro Pulverizers #1-SH, #1-SI, #2-SI, #2-TH and 24" TH.

1—Bird 48" dia. Suspended Centrifugal Stainless Steel Perforated Basket, Plow, Bottom Discharge, 15 H.P. motor.

4—DeLaval Centrifugal Oil Purifiers, models 600, 74-11 and 94-01.

2—Sweetland Filters, #10, #12.

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**STILL**—5'x10' w/condensers.

**CENTRIFUGAL PUMPS**—1", 2", 2½", Rubber, Stainless, C.I., large stock, low prices.

**KETTLES**—2500 gal., steel, 250 gal. ag. jacketed, Aluminum, 50 gal. nickel.

**DRYERS**—Rotary 3'x30', 4'x20', 4½'x20,' 4'x32' Louisville Type.

**BLOWERS**—North Amer. 400 cfm 12 oz.; Spencer 1200 cfm, 16 oz. Exhausters to 60000 cfm.

**SCREENS**—Tyler Hummer, 3x5, 1 & 3 deck. Vibrex 4x12—3½ deck.

**JAW CRUSHERS**—8½ x 14½, 9 x 15, 11 x 26, 18 x 36.

**FILTER PRESSES**—30" wash. open, 42" closed, non-wash.

**TANKS** — 3300—10000—15000 gallon. Stock.

**MIXERS**—New—Portable—¼ to 5 HP.

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LAWLER PLACE, METUCHEN, N. J.
METUCHEN 6-0245

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## *OFFERS*

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5 x15' Rotary Kiln brick lined complete.
Vulcan 8'x80' Rotary Kiln 20 HP.
Devine #12 Vac. Shelf Dryer, 40"x42".
2—Allbr. Nell 4'x9 Atmos. Drum Dryers, apron Conveyor Dryer.
1—Buffalo Vac. Drum Dryer, 24"x20".
6—Steam, gas & elect. Dryers.
8—Rotary Dryers. Direct & indirect. Also Jacketed & Steam Tube.
New Rotary Dryers. Kilns and Coolers

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6—Tolhurst 40" Suspended Type Centrifugals Bottom Discharge.
8—Centrifugals, 12", 20", 26", 30", 40" & 48" Steel, Copper, Stainless & Rubber.
11—Sharples No. 5A Stainless Centrifuges, 2 HP Also No. 6.
2—De Laval Multi Clarifiers. 300 & 301.

**FILTERS**

1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
10—Sperry and Shriver, 12", 18" 24" 30", 36" iron Filter Presses, also disc types. Sweetland & Oliver Vac. Filters.

**KETTLES AND TANKS**

100 gal. Stainless closed Jack. Agit. Kettle.
2000 gal. type 304 Stainless vert. Tank
Pfaudler 500-gal. Glass Lined Tanks.
Dopp 350 gal. agit. Jack. C. I. Vac. Kettle.
Devine 36" dia. Impregnating Unit; Jacketed. Liquor & Impregnating Kettle.
100 gal. Jack. Impregnating Kettle.
500 & 1,000 gal. closed Jack. Steel Kettles.
2300 gal. vert. agit. Jack. Steel Kettle.
600 gal. vert. agit. Jack. Steel Kettle.
8—Jack Kettles, 50 to 2500 gals.
2—Pfaudler 500-gal. Glass Lined Tanks.
1—250 gal Lead lined Kettle.
250 gal. Jacketed Copper Kettle. Stainless, alum., Copper, Glass Lined, Lead Lined & Steel Kettles and Tanks. New Stainless Tanks. 50 to 500 gals.
250 gal. vert. Copper Jack Kettle.
Copper Varnish Kettles. 150 to 300 gals.

**PULVERIZERS AND MILLS**

Patterson Pebble Mills, 6'x9', 6'x5', 30"x42", Abbe Pebble Mill, 24"x33" Jar Mills.
1—Abbe ebble Mill, 24"x33". Jar Mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1#00 Raymond Mill 30 H.P., complete.
2—#0000 Raymond Mills.
Hammer Mills & Pulverizers, to 50 HP.
1—Sturtevant 42" Rock Emery Mill.
1—Robinson 22" B.B. Attrition Mill.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 8"x22" 9"x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
1—9"x24" 1 Pr. High Steel Roller Mill.
Houchin 18"x36" 4 Roll Granite Stone Mills.
2—U. S. & Premier 1½ H.P. Colloid Mills.

**MIXERS, SIFTERS & SCREENS**

Baker Perkins double arm Mixers, 100, 50 & 9 gals. Also single arm Mixers.
Century 40 & 80 qt. vert. 4 speed Mixer.
Tyler 3'x5' Vibratory 2 deck Screen.
Patterson 3½' dia. Stainless Conical Blender.
1—Master Drum type 1000# Blender.
10—Dry Powder Mixers, 50 to 2,000 lbs.
Day 15 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 2 HP.
6—Lead and Paste Mixers, to 150 gals.

**MISC. AND SPECIALS**

Stokes #280, 4" dia. Preform Machine.
Ball & Jewell #1 Rotary Cutter.
Anderson RB Expeller 20 HP Motor.
Sly Dust Collector, 242 sq. ft., complete.
3—Buffalo Horiz. Vac. Pumps, 5 H.P.
2—Buffalo 6' dia. Vac. crystallizers.
4—Stokes & Colton Rotary and Single Punch Tablet Machines, ½ to 4".
4—French Oil Motor Driven Expellers.
1—Stokes 2E Paste Filler.
3—Stokes and Day Powder Fillers.
Filling Machines, liquid paste, powder.
Elgin Capper, ½ H.P. Motor driven.
1—Howe Mogul barrel and bag packers.
3—Revolving Pans, 28", 30" & 36" dia.
1—Gould 75 HP 2 stage centrif. Pump.
4—Stokes Vertical High Vac. Pumps.
2—Worth 12"x12"x12" Vac. Pumps.
6—Devine & Buffalo Vac. Pumps.
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2—Baker Perkins 500 gallon mixers, jacketed, double arm.

2—3000# jacketed ribbon type mixers.

2—W & P 100 gallon jacketed double arm sigma mixers.

5—Niagara Tyler stainless 2' x 8' & 3' x 8' screens.

1—12,750 gallon stainless vertical tank.

5—400 to 1700 gallon acid proof tanks, with stainless Turbo agitation.

15—Stainless steel reactors, 80 to 3250 gallons, some jacketed and coiled.

2—Buflovak 24" x 36" & 32" x 52" double drum driers.

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Lancaster and Simpson Mix Mullers in all sizes.

Ribbon Mixers in steel and stainless in all sizes.

Dopp Cast Iron Jacketed and Agitated Kettles; 150 gal. to 600 gal.

Pfaudler Glass-Lined, Jacketed Reactors up to 400 gal.

American Sterilizers with quick opening doors; 32"x48" and 42"x60".

Three Roll Paint Mills; 12"x30" and 16"x40"; reduced prices.

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Stainless Tanks from 50 gal. to 5000 gal. immediate shipment.

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Established 1912

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International Stainless Steel Straightline Vacuum Filler.
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Kiefer Rotary Air Cleaner.
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Burt Wraparound Labeler.
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Lehman Horizontal Steel Water-Cooled Mills.
Lehman Upright High-Speed 3-Roll Mill.
Fitzpatrick S.S. "D" Comminuter.
W. & P. type 3500 gal. Steam Jacketed, Double Arm Mixer.
J. H. Day 8 gal. Pony Mixer.
Baker Perkins 150 gal. Unidor S. J. Double Arm Mixer.
Baker Perkins BB, W. & P., Readco Heavy Duty 50, 100, 150 gal. Double Arm Mixer.
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R. A. Jones "E" auto. Soap Press.
Allis Chalmers and Great Western V, C, Jumbo Sifters.
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Knapp No. 429 Carton Sealer.
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1—Bird 36"x50" S.S. 316 Continuous Centrifuge.
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1—3'x24' Hersey Rotary Dryer, S.S. 304.
1—12" ATM Suspended Centrifugal S.S. 304, M.D.
1—Size O Abbe Rotary Cutter with 5 H.P. motor.
1—Jettery 36"x36" Swing Hammer Mill, 30 H.P. motor.
1—Shriver 18"x18" S.S. P.&F. Filter Press, 12 chambers.
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2—Baker Perkins 500 gallon jktd double arm mixers, bottom discharge.
2—W&P 100 gallon double arm sigma blade mixers
4—Day Cincinnatus #6 & #2 double arm sigma blade mixers.
1—Ross 7'8" double muller chaser mill, 20 HP TEFC motor.
12—30 & 42" Shriver and Independent filter press skeletons.
1—Buflovak 20 shelf dryer, double door, 60" x 80" shelves.
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Mixer: Colton #6 stain. steel, 5 hp.
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Mixer: Simpson 36" Intensive.
Powder Mixers: 100 to 2,000 lbs.
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Shriver and Sperry Filter Presses from 12" to 36"; plate and frame.

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Single and Multiple Effect Evaporators; all types.

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#316 Stainless Steel Tanks, new 100, 200 & 350 gal.
1—Stainless Tank #430 Chrome, vert. 7'x10' deep.
20—Jacketed Kettles—Stainless, Copper, Aluminum.
1—Day Mixer, steam jacketed, 50 gal. Sigma Blade.
1—Robbins Vibrex 3x6 Vibrating Screen, single deck.
1—Copper Evaporator, steam jacketed, 9'1"x3'9".
60—New Pressure Cookers, 18"x18" & 24"x28".
50—Pumps—steam and electric.
1—New Glass Nash Centrifugal Pump, 150 gpm.
1—Jeffrey Vibrating Conveyor 15' lg. 12" wide.
1—Buflovak Jacketed Impregnating Tank 42"x32".
1—4x6 Sturtevant Jaw Crusher.
1—Ribbon type Mixer, steam jacketed.
1—Model 16 Sharples Stainless Steel Centrifuge.
3—New Drum Rollers.
2—Nash Air Compressors, Type AL-623.
10—Tanks, 9'9"x30"—15,500 gal. each.
3—French Oil Mill Lard Coolers.
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4—Stokes Rotary Tablet Machines RD4.
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1—#316 Stainless Reactor, 251 gals. cap., jacketed.
Mead Mill #2 with 7½ HP motor & Drayer Feeder.
Davenport Rotary Steam Tube Dryer, 6'x36'.
Abbe Pebble & Tube Mill, 5'x22'—Burr-Stone Lined.
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1—Patterson Ball Mill, porcelain lined, 17"x27".
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Robinson Pulverizer #20, with 2 motors 10 HP each.
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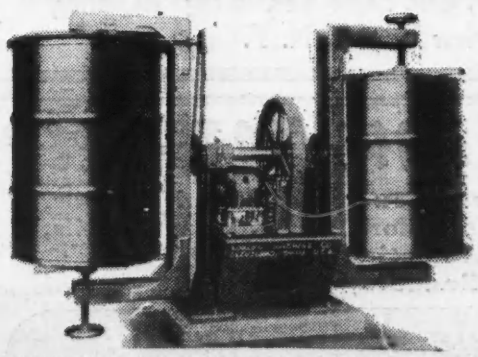

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40" Fletcher, type 304 SS.
40" Tolhurst, perforated.
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30"x8' Stokes, Model 59AB, vacuum, rotary.
5'x6' Blaw-Knox, Drum, atmospheric.
24"x28' Proctor & Schwartz Conveyor.
6'x35' Louisville Steam Tube, complete.
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48"x108" Stokes, double drum 100 PSI ASME.
4'x15' Rotary, vacuum, 316 SS.
5'x30' Buflovak, vacuum, rotary, complete.

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Double effect, Stokes, 316 SS, 150 sq ft. per effect.

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48" dia. Niagara, hor. New.

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1035 sq. ft. Steel, WP 250 PSI.
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7'x120'x⅜".
7'x55'x½".
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5'x67'x5/16".
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54" 4-roll, Raymond, complete.
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6'x8' Abbe, Ball, type GPH (3).
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3900 gal., jacketed.
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140 cu. ft. double shaft, paddle (NEW).
77 cu. ft. Blystone, heavy duty (2).

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3,000 gal. Jackt'd., SS clad, ASME (NEW).
400 gal. Pfaudler, Acid Glass, ASME.

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600 gal. copper, 57"x38" st. side.
1500 gal. C.I. 66"x10'.

### STORAGE TANKS
1300 gal. 5'x9'x5/16" glass-lined.
3400 gal. 7'4"x10'x⅜" type 430 SS.
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8500 gal. 8'x23'x5/16" vert. (NEW).
12,000 gal. 8'x32'x¼" (NEW).
13,500 gal. 8'x36'x⅜".
15,000 gal. 10'6"x23'x¼" (NEW).
135,000 gal. 30'x26' w/coils.

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1200 gal. 42"x16'x5/16" ASME 125 PSI.
1250 gal. 4'x14' 106 PSI.
8200 gal. 8'x23'x2' 390 PSI (4).

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AUTOCLAVE—2000 gal., jkt. & int. 200 PSI.
CONDENSER—Surface, 1035 sq. ft. Braun.
CRUSHER—Two roll, 14"x16" spiked rolls.
KOMBINATOR—SS, Flowmaster K200 & motor.
PUMP—Fuller-Kinyon, 4".

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- CLARIFIERS
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## Advertisers Index


Advance Solvents & Chemical Corp. 84
Albemarle Paper Mfg. Co. 73
Alco Manufacturing Co., Inc. 82
American Agricultural Chemical Co. 1
American British Chem. Supplies, Inc. 58
American Cyanamid Co., Industrial Chemicals Div. 22
Archer-Daniels-Midland Co. 78
Ashcraft-Wilkinson Co. 31
Atlas Powder Co. 30

Baird, J. M., Company 60
Baker, H. J., & Bro. 78
Baker, J. T., Chemical Co. 8
Barcan, Irving, Co. 82
Barclay Chemical Co. 82
Barrett Division 52
Belgameric, Inc. 62
Berkshire Chemicals, Inc. 62
Bios Laboratories, Inc. 60
Bonewitz Laboratories, Inc. 44
Borden Company, The 62
Bower, Henry, Chemical Mfg. Co. 46
Bowman, Charles, & Co. 50
Brill Equipment Co. 79
Brode Corp., The 78
Burgess Chemical Co. 74

Capital City Products Co. 77
Carbide & Carbon Chemicals Co., Div. Union Carbide & Carbon Corp. 60
Carey, Philip, Mfg. Co. 63
Celanese Corp. of America, Chemical Div. 21, 84
Chemical & Process Machinery Co. 80, 81
Chemical Service Corp. 82
Chemical Solvents, C. P., Inc. 84
Chemsol, Incorporated 74
Church & Dwight Co., Inc. 40
Ciba Company 54
Cleveland Steel Barrel Co. 80
Columbia Southern Chemical Corp. 34, 40
Commercial Solvents Corp. 23
Consolidated Chemical Industries, Inc. 45
Consolidated Products Co., Inc. 79
Consulting Chemists and Engineers 55
Cornwell Chemical Corp. 59
Coupe, Robert A. 44
Crosby Forest Products Co. 77

Dewey & Almy Chemical Co. 17
Diamond Alkali Co. 1
Diamond Alkali Co., Organic Chemicals Div. 47
Dicalite Division, Great Lakes Carbon Corp. 70
Diehl, Wm., & Co. 78
Distillation Products Industries, Div. of Eastman Kodak Co. 57
Dodge & Olcott, Inc. 70
Doggett, Stanley, Inc. 74
Dow Chemical Co. 11
Dreyer, P. R., Inc. 70
Duff Chemical Co., Inc. 42, 62
Du Pont de Nemours, E. I., & Co., Inc. 19, 25
Duval Sulphur & Potash Co. 31

Eastman Chemical Products, Inc. 13
Emery Industries, Inc. 77
Equipment Clearing House, Inc. 81
Ethyl Corporation 32
Eureka Machine Co. 81
European Chemical Co., Inc. 46

Fairmount Chemical Co., Inc. 61
Felton Chemical Co., Inc. 71
Ferro Chemical Corp. 48
Fezandie & Sperrle 49
Filtrol Corp. 44
Fine Organics, Inc. 84
First Machinery Corp. 80, 81, 82
Florasynth Laboratories, Inc. 69
Fritzsche Brothers, Inc. 69

Gas Purifying Materials Co. 46
Gelb, R., & Sons, Inc. 79
General Biochemicals, Inc. 65
Givaudan-Delawanna, Inc. 71
Gray, William S., & Co. 1
Greeff, R. W., & Co. 40
Gross, A., & Company 76
Gruman, J. B., Co. 65

Hall, The C. P., Co. 60
Hardesty, W. C., Co. 76
Heat and Power Co., Inc. 81
Hercules Powder Co. 75
Heyden Chemical Corp. 56
Hoffmann-La Roche, Inc. 2
Hooker Electrochemical Co. 42
Horn, Jefferys & Co. 75
Houghton, I. C., Corp. 51
Hutchinson, D. W., & Co., Inc. 69

Inland Alkaloid Company 67
Innis, Speiden & Co. 14
International Minerals & Chemical Corp. 45

Jefferson Chemical Co. 20

Kay-Fries Chemicals, Inc. 58
Kolon Trading Co., Inc. 48
Koppers Company, Inc. 53

Lawler Company 80
Leonhard, Theodor, Wax Co., Inc. 77
Lever Brothers Company 58
Liquid Carbonic Corp. 15
Lithotype Process Co. 73
Loeb, H., & Son 81
Loeb Equipment Supply Co. 81
Lucidol Corp. 60
Lueders, George, & Co. 69

Machinery & Equipment Corp. 81
Magnus, Mabee & Reynard, Inc. 69
Mallinckrodt Chemical Works 28a, 28b, 28c, 28d, 74
Mantrose Corporation 72
Manufacturers Products Co. 82
Marine Magnesium Products Corp. 65
Maschmeijer, A., Jr. 71
Matheson Coleman & Bell, Inc. 61
Mathieson Chemical Corporation 43
McKesson & Robbins, Inc. 56
McLaughlin-Gormley-King Co. 48
Meer Corporation 67
Mefford Chemical Co. 62
Metalsalts Corporation 62
Metasap Chemical Co. 36
Michigan Chemical Corp. 59
Miel, George A., Co., Inc. 77
Miller Motor Line of No. Carolina, Inc. 82
Mondial Trading Corp. 49
Mutual Chemical Co. of America 12

National Chlorophyll & Chemical Co. 56
National Rosin Oil Products, Inc. 75
Natural Products Refining Co. 49
Neville Company 75
Newman Tallow & Soap Machinery Co. 81
Niagara Alkali Company 35
Nitrogen Division Allied Chemical & Dye Corp. 47, 57

Ohio-Apex, Inc. 74
Oronite Chemical Co. 54

Pacific Coast Borax Co. 1
Pacific Vegetable Oil Corp. 28
Parsons-Plymouth, Inc., M. W. 75
Penick, S. B., & Co. 66
Pennotex Oil Corp. 51
Pennsylvania Industrial Chem. Corp. 72
Pennsylvania Refining Company 51
Penola Oil Co. 51
Perry Equipment Corp. 80
Pfizer, Chas., & Co., Inc. 39
Philipp Brothers Chemicals, Inc. 41
Philipp Brothers, Inc. 41
Pittsburgh Coke & Chemical Co. 48
Plax Corporation 18
Polak & Schwarz., Inc. 71
Potash Co. of America 48
Prentiss Drug & Chemical Co., Inc. 66
Prior Chemical Corp. 1
Process Plants Service 81
Procter & Gamble 58
Publicker Industries, Inc. 1
Purocaine, Inc. 60
Pyramid Chemical Co. 47

Quaker State Oil Refining Corp. 51

Raney Catalyst Co. 44
Read, Chas. L., & Co., Inc. 48
Reheis Company, Inc. 62
Republic Steel Corp. 53
Richmond Mica Corp. 73
Richter, Gedeon, Pharmaceutical Products, Inc. 58
Rosenthal Bercow Co., Inc. 84
Roure-Dupont, Inc. 70

Seidner & Enequist, Inc. 44
Sharples Chemicals Inc. 84
Sheffield Chemical Co., Inc. 61
Shell Chemical Corp. 24
Shell Oil Co., Inc. 50
Smith Chemical & Color Co., Inc. 83
Snell, Foster D., Inc. 42
Socony-Vacuum Oil Co., Inc. 27
Solvay Process Div., Allied Chemical & Dye Corp. 33
Solvents & Chemical Group 73
Spencer Chemical Co. 46
Standard Collapsible Tube Co. 49
Stauffer Chemical Co. 43
Stein Equipment Co. 80
Strohmeyer & Arpe Co. 76
Sumner Chemical Co., Inc. 65
Sunkist Growers, Inc. 26
Synthetic Products Co. 73

Tamms Industries, Inc. 74
Tar Residuals, Inc. 54
Terra Chemicals, Inc. 65
Thurston & Braidich 68
Titanium Pigment Corp. 29
Tragacanth Importing Corp. 68
Truland Chemical & Engineering Co. 82
Turner, Joseph, & Co. 46

Union Carbide & Carbon Corp., Carbide & Carbon Chemicals Co. Div. 60
Union Standard Equipment Co. 80
United States Potash Co., Inc. 47

van Ameringen-Haebler, Inc. 70
Verona Chemical Co. 70

Warwick Wax Company, Inc. 6, 37
Will & Baumer Candle Co., Inc. 76
Wilner Wood Products Co. 75
Wirz, A. H., Inc. 63
Witco Chemical Company 10
Wood, Alan, Steel Co. 54
Worthington Biochemical Sales Co. 65
Wyandotte Chemicals Corp. 16

Ziegler, G. S., & Co. 73
Zinsser & Co., Inc. 49


## P.A.'s-Eye View

—*Continued from page 5*

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**Specific Commodity Changes**

The downs far overshadow the ups, both in number and degree of change. Copper, lead and zinc, with their products, led the declines in September. Reported up were steel and gray iron castings, paper and paperboard containers, some electrical equipment, fatty acids, sheet glass, refractories, soap, sulphuric acid and titanium dioxide.

On the downside were automobiles (new and used), brass, cattle, coal, petroleum coke, copper, cotton, cotton linters, electrical appliances, ethyl ether ferromanganese, gelatin, glycerin, low-priced homes, scrap iron, lead, lumber, mercury, rubber, tin, vinyl acetate, copper wire, zinc, zinc dust and oxide.

Hard to get are cement (seasonal), graphite, polyethylene and structural steel. Most other commodities are reported available or in easing position.

**Canada**

Industrial fall and winter business is reported starting up with a bang in Canada. Orders and production are substantially up. Commodity prices are holding much better than in the states. Inventories are slightly higher. Employment is high. Buying policy range is somewhat longer than in the United States. Canadians are optimistic that business will remain at its present high level over the balance of the year.


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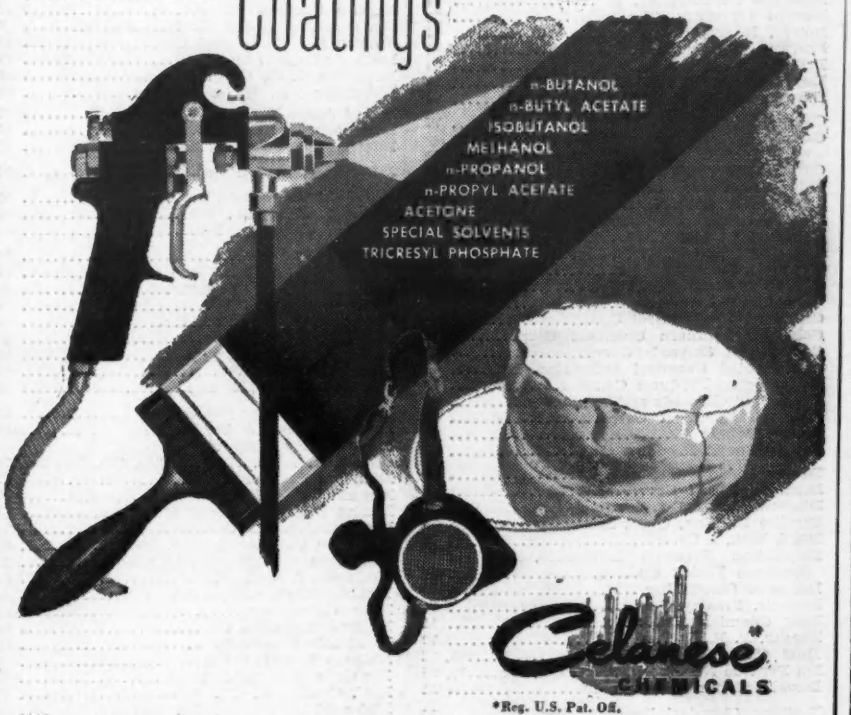


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